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KCC WICHITA

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1
September 1999
Form Must Be Typed

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

ORIGINAL

Operator: License # 33184
 Name: PATINA OIL & GAS CORPORATION
 Address: P.O. BOX 1024
 City/State/Zip: DUNCAN, OKLAHOMA 73534
 Purchaser: DUKE ENERGY
 Operator Contact Person: JOYCE WILLIAMS
 Phone: (580) 252-2085
 Contractor: Name: CHEYENNE DRILLING, INC.
 License: 5382
 Wellsite Geologist: NONE
 Designate Type of Completion:
 New Well Re-Entry Workover
 Oil SWD SLOW Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, WSW, Expl., Cathodic, etc)
 If Workover/Re-entry: Old Well Info as follows:
 Operator: _____
 Well Name: _____
 Original Comp. Date: _____ Original Total Depth: _____
 Deepening Re-perf. Conv. to Enhr./SWD
 Plug Back _____ Plug Back Total Depth _____
 Commingled _____ Docket No. _____
 Dual Completion _____ Docket No. _____
 Other (SWD or Enhr.?) _____ Docket No. _____

<u>09/05/2002</u>	<u>09/17/2002</u>	<u>11/12/2002</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 175-21880-00-00
 County: SEWARD
SE NE Sec. 16 Twp. 34 S. R. 31 East West
1980' feet from S / N (circle one) Line of Section
660' feet from E / W (circle one) Line of Section
 Footages Calculated from Nearest Outside Section Corner:
 (circle one) NE SE NW SW
 Lease Name: GOOD Well #: 2-16
 Field Name: ARKALON
 Producing Formation: MORROW
 Elevation: Ground: 2490' Kelly Bushing: 2504'
 Total Depth: 6000' Plug Back Total Depth: 5975'
 Amount of Surface Pipe Set and Cemented at 1454' Feet
 Multiple Stage Cementing Collar Used? Yes No
 If yes, show depth set _____ Feet
 If Alternate II completion, cement circulated from _____
 feet depth to _____ w/ _____ sx cmt.
ALT I WHM 10-2-06

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content 2100 ppm Fluid volume 7105 bbls
 Dewatering method used EVAPORATION
 Location of fluid disposal if hauled offsite:
 Operator Name: NICHOLS FLUID SERVICE
 Lease Name: MORLEN #1-16 License No.: 31983
 Quarter _____ Sec. 16 Twp. _____ S. R. 32 East West
 County: SEWARD Docket No.: D-25-529

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 of 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: Joyce Williams
 Title: Production Analyst Date: February 11, 2003
 Subscribed and sworn to before me this 11 day of February,
 19 2003.

Notary Public PAT BECK
 Stephens County
 State of Oklahoma
 Commission # 02015360 Expires 10/15/06
October 15, 2006

KCC Office Use ONLY

NO Letter of Confidentiality Attached
 If Denied, Yes Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution

Operator Name: PATINA OIL & GAS CORPORATION Lease Name: GOOD Well #: 2-16
 Sec. 16 Twp. 34 S. R. 31 East West County: SEWARD

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems 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 test, along with final chart(s). Attach extra sheet if more space is needed. Attach copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

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)

Log Name	Formation (Top), Depth and Datum	Sample Datum
MORROW / CHESTER	5654'	5822'

List All E. Logs Run:

DUAL INDUCTION RESISTIVITY LOG
 COMPENSATED NEUTRON PEL DENSITY MICRO 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 Additives
SURFACE	12 1/4"	8 5/8"	24	1454'	CLASS C	870	6% Bentonite 2% CaCl
PRODUCTION	7 7/8"	5 1/2"	15.5	5986'	PREMIUM	265	9% Versaset 5% KCL, 5% Halad-322 1/4# Flocele

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	5728'-34, 5705'-09	345 BBL 3% HCL ACID W/	5650'
2	5698'-5701', 5689'-92'	50% CO2 FOAM,	TO
2	5680'-83', 5672'-76'	21,500# 20/40 POLYMER SAND	5734'
2	5667'-69'		
2	5650'-55'		

TUBING RECORD		Size	Set At	Packer At	Liner Run	Yes	<input checked="" type="checkbox"/> No
		2 3/8"	5752'				
Date of First, Resumed Production, SWD or Enhr.			Producing Method				
01/06/2003			<input checked="" type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity		
	0	378	0				

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

METHOD OF COMPLETION: Open Hole Perf. Other (Specify) _____

Production Interval: Dually Comp. Commingled _____

HALLIBURTON JOB SUMMARY				SALES ORDER NUMBER 2043388	TICKET DATE 09/18/02
REGION Central Operations		NWA / COUNTRY Mid Continent/USA		BDA / STATE Ks	COUNTY SEWARD
MBU ID / EMP # MCLI0101 106322		H.E.S. EMPLOYEE NAME Danny McLane		ORIGINAL	
LOCATION LIBERAL		COMPANY LE NORMAN ENERGY CORPORATION		CUSTOMER REP / PHONE DAVID LOVELY 580-252-2085	
TICKET AMOUNT \$7,667.03		WELL TYPE Oil		API/MI # 1517521880	
WELL LOCATION Liberal Ks		DEPARTMENT Cement		SAP BOMB NUMBER 7523 Cement Production Casing	
LEASE NAME GOOD		Well No. 2-16	SEC / TWP / RNG 16 - 34S - 31W		HES FACILITY (CLOSEST TO WELL SITE) Liberal Ks

HES EMP NAME / EMP # / (EXPOSURE HOURS)	HRS	HRS	HRS	HRS
McLane, D 106322	13.0			
Tate, N 105953	13.0			
Marquz, J 206446	10.0			

H.E.S. UNIT #S / (R / T MILES)	R / T MILES	R / T MILES	R / T MILES	R / T MILES
420995	20			
10251401	20			
54218 75821	35			

Form. Name _____ Type: _____
 Form. Thickness _____ From _____ To _____
 Packer Type _____ Set At _____
 Bottom Hole Temp. _____ Pressure _____
 Retainer Depth _____ Total Depth _____

Date	Called Out	On Location	Job Started	Job Completed
	9/18/2002	9/18/2002	9/18/2002	9/18/2002
Time	0200	0400	1115	1400

Type and Size	Qty	Make
Insert 5 1/2	1	H
Float Shoe		
Centralizers 5 1/2	13	O
Top Plug 5 1/2	1	
HEAD 5 1/2	1	W
Limit clamp 5 1/2	1	
Weld-A	1	C
Guide Shoe 5 1/2	1	
Basket 5 1/2	1	O

		Well Data				
	New/Used	Weight	Size Grade	From	To	Max. Allow
Casing	New	15.5	5 1/2	KB	5986.15	
Liner						
Liner						
Tubing						
Drill Pipe						
Open Hole			7 7/8			Shots/Ft.
Perforations						
Perforations						
Perforations						

Materials			
Mud Type _____	Density _____	Lb/Gal _____	
Disp. Fluid _____	Density _____	Lb/Gal _____	
Prop. Type _____	Size _____	Lb _____	
Prop. Type _____	Size _____	Lb _____	
Acid Type _____	Gal. _____	% _____	
Acid Type _____	Gal. _____	% _____	
Surfactant _____	Gal. _____	In _____	
NE Agent _____	Gal. _____	In _____	
Fluid Loss _____	Gal/Lb _____	In _____	
Gelling Agent _____	Gal/Lb _____	In _____	
Fric. Red. _____	Gal/Lb _____	In _____	
Breaker _____	Gal/Lb _____	In _____	
Blocking Agent _____	Gal/Lb _____		
Perfpac Balls _____	Qty. _____		
Other _____			
Other _____			
Other _____			
Other _____			
Other _____			

Hours On Location		Operating Hours		Description of Job
Date	Hours	Date	Hours	
9/18	13.0	9/18	1.0	Cement Production Casing
Total	13.0	Total	1.0	

Ordered _____	Hydraulic Horsepower Avail. _____	Used _____
Treating _____	Average Rates in BPM Disp. _____	Overall _____
Feet 44.33	Cement Left in Pipe Reason _____	SHOE JOINT

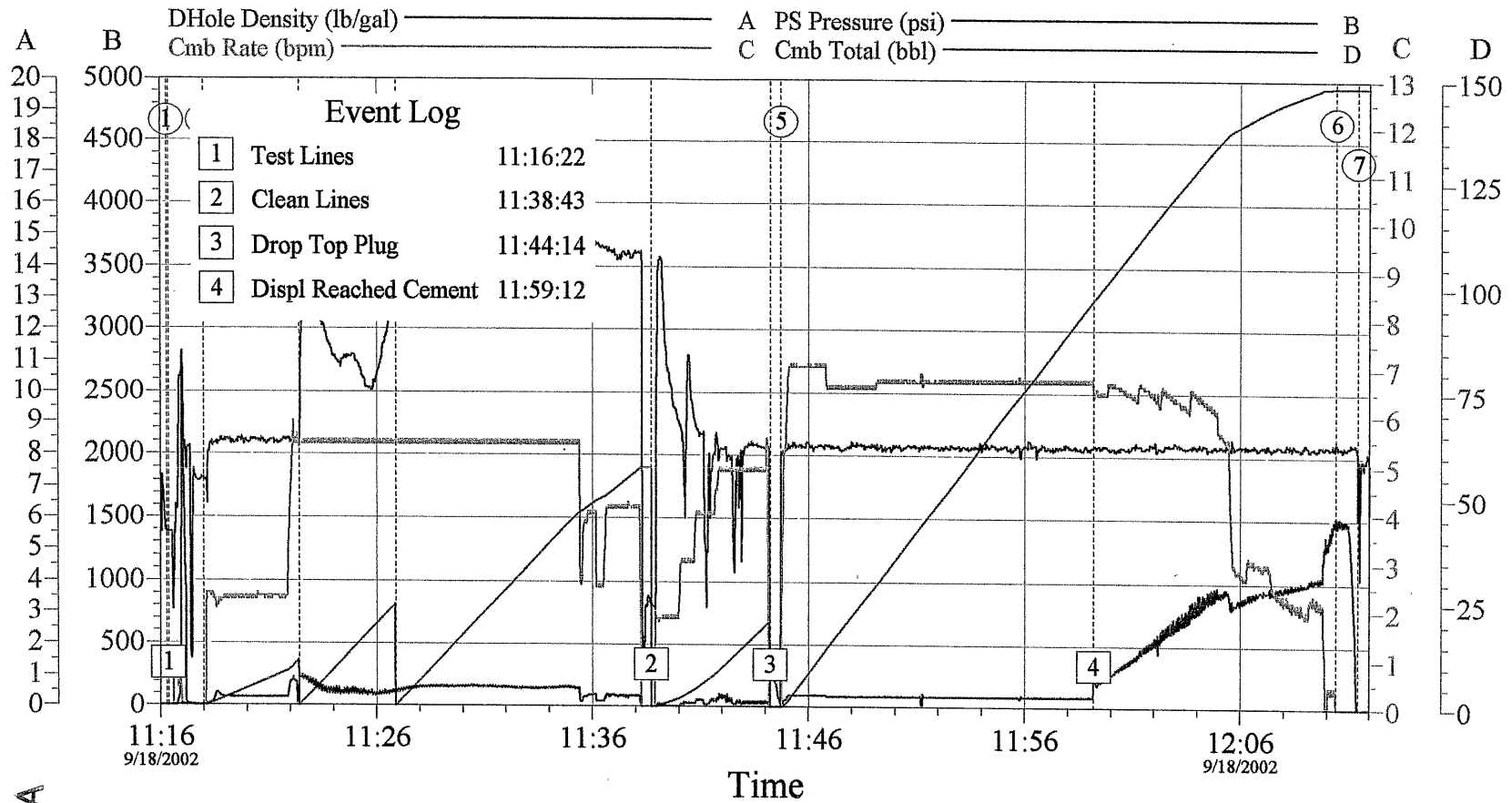
Cement Data								
Stage	Sacks	Cement	Bulk/Sks	Additives	W/Rq.	Yield	Lbs/Gal	
1	25	PREMIUM		.9% VERSASET - 5% KCL - .5% HALAD-322 - 1/4# FLOCELE	39.80	5.91	10.00	
2	240	PREMIUM		.9% VERSASET - 5% KCL - .5% HALAD-322 - 1/4# FLOCELE	6.92	1.44	14.50	
3	25	PREMIUM		.9% VERSASET - 5% KCL - .5% HALAD-322 - 1/4# FLOCELE (TO PLUG R	6.92	1.44	14.50	
4								

Summary							
Circulating Breakdown _____	Displacement _____	Preflush: BBI _____	10.00	Type: KCL Water			
Lost Returns-1 _____	MAXIMUM _____	Load & Bkdn: Gal - BBI _____		Pad:Bbl -Gal _____			
Cmt Rtrn#Bbl _____	Actual TOC _____	Excess /Return BBI _____		Calc. Disp Bbl _____		141.5	
Average _____	Frac. Gradient _____	Calc. TOC: _____		Actual Disp. _____		142	
Shut In: Instant _____	5 Min. _____	Treatment: Gal - BBI _____		Disp:Bbl _____			
		Cement Slurry BBI _____		26, 61.5		6.5 for rat & mouse holes	
		Total Volume BBI _____		#VALUE!			

Frac Ring #1 _____ | Frac Ring #2 _____ | Frac Ring #3 _____ | Frac Ring #4 _____

THE INFORMATION STATED HEREIN IS CORRECT
 CUSTOMER REPRESENTATIVE _____ SIGNATURE _____

ORIGINAL



Stages					
①	Start Job	11:16:18	②	Pump Spacer 1	11:18:00
③	Pump Lead Cement	11:22:24	④	Pump Tail Cement	11:26:53
⑤	Pump Displacement	11:44:44	⑥	Bump Plug	12:10:27
⑦	End Job	12:11:28			

Customer:	Job Date:	Ticket #:
Well Description:	UWI:	

HALLIBURTON
CemWin v1.4.0
18-Sep-02 12:14

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SALES ORDER

ORIGINAL

Halliburton Energy Services, Inc.

FEB 13 2003

KCC WICHITA

Sales Order Number: 2043388

Sales Order Date: September 18, 2002

SOLD TO:

LE NORMAN ENERGY CORPORATION
PO BOX 1024
DUNCAN OK 73534
USA

Ticket Type:

Services

Well/Rig Name:

LE NORMAN ENERGY GOOD 2-16,

SEWARD

Company Code:

1100

Customer P.O. No.:

N/A

Shipping Point:

Liberal, KS, USA

Sales Office:

Mid-Continent BD

Well Type:

Oil

Well Category:

Development

Service Location:

0037

Payment Terms:

Net due in 20 days

SHIP TO:

LE NORMAN ENERGY GOOD 2-16, SEWARD
GOOD
*
LIBERAL KS 67901
USA

Material	Description	QTY	UOM	Base Amount	Unit Amount	Gross Amount	Discount	Net Amount
7523	PSL - CMT PRODUCTION CASING - BOM JP035	1.00	JOB					
1	"ZI-MILEAGE FROM NEAREST HES BASE,/UNIT" 000-117 Number of Units	20	MI		5.03	100.60	57.34-	43.26
2	MILEAGE FOR CEMENTING CREW,ZI 000-119 Number of Units	20	MI		2.96	59.20	33.74-	25.46
16091	ZI - PUMPING CHARGE 001-016 DEPTH FEET/METRES (FT/M)	1.00	EA		3,325.00	3,325.00	1,895.25-	1,429.75
132	PORT. DAS W/CEMWIN;ACQUIRE W/HES, ZI 045-050 NUMBER OF DAYS	1.00	JOB		916.00	916.00	522.12-	393.88
100003142	PLUG,CMTG, TOP AL,5 1/2 13-23# & 5 3/4 402.1505 / PLUG - CMTG - TOP ALUM - 5-1/2	1.00	EA		126.50	126.50	72.11-	54.39

KCC WICHITA

Sales Order Number: 2043388

Sales Order Date: September 18, 2002

Material	Description	QTY	UOM	Base Amount	Unit Amount	Gross Amount	Discount	Net Amount
100004723	13-23# / & 5-3/4 19.5-22.5# SHOE,GID,5 1/2 8RD SHOE, GUIDE, 5-1/2 8RD	1.00	EA		214.70	214.70	122.38-	92.32
100076173	FLOAT-IFV,5 1/2,8RD,LG,8RD & BUTRS VALVE ASSEMBLY, INSERT FLOAT, 5-1/2 / 14-23 LBS/FT, 8RD, LG 8RD AND BUTTRESS	1.00	EA		264.60	264.60	150.82-	113.78
100013930	FILUP ASSY,1.250 ID,4 1/2,5 IN INSR 27815.19113 / FILLUP ASSY - 1.250 ID - 4-1/2 - / 5 IN. INSERT FLOAT VALVE	1.00	EA		64.00	64.00	36.48-	27.52
100004476	CTRZR. ASSY,5 1/2 CSG X 7 7/8 HOLE,HINGED 806.60022 / CENTRALIZER ASSY - API - 5-1/2 CSG X / 7-7/8 HOLE - HINGED - W/WELDED / IMPERIAL BOWS	13.00	EA		76.23	990.99	564.86-	426.13
100004639	COLLAR-STOP-5 1/2"-W/DOGS XXXXXXX 806.72730 / CLAMP - LIMIT - 5-1/2 - FRICTION - / W/DOGS	1.00	EA		40.70	40.70	23.20-	17.50
100004614	BSKT,CEM,5 1/2 CSG,SLIP-ON,STL BWS,CANV 806.71430 / BASKET - CEMENT - 5-1/2 CSG - SLIP-ON / - STEEL BOWS - CANVAS	1.00	EA		232.10	232.10	132.30-	99.80
100005045	HALLIBURTON WELD-A KIT // HALLIBURTON WELD-A KIT	1.00	EA		36.86	36.86	21.01-	15.85
100001585	CHEM-KCL POTASSIUM CHLORIDE - 50# 70.15302 / CHEMICAL - KCL POTASSIUM CHLORIDE - / 50 LB SACK OR BAG	100.00	LB		0.62	62.00	35.34-	26.66
100003687	CEM,CLASS H / PREMIUM, BULK CEMENT - CLASS H - PREMIUM - BULK / CEMENT - CLASS H - PREMIUM - BULK	265.00	SK		21.61	5,726.65	3,264.19-	2,462.46

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ORIGINAL

Halliburton Energy Services, Inc.

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KCC WICHITA

Sales Order Number: 2043388

Sales Order Date: September 18, 2002

Material	Description	QTY	UOM	Base Amount	Unit Amount	Gross Amount	Discount	Net Amount
100007865	CHEMICAL - VERSASET - 50 LB SACK 516.00789 / CHEMICAL - VERSASET - 50 LB SACK	225.00	LB		6.61	1,487.25	847.73-	639.52
100001585	CHEM-KCL POTASSIUM CHLORIDE - 50# 70.15302 / CHEMICAL - KCL POTASSIUM CHLORIDE - / 50 LB SACK OR BAG	762.00	LB		0.62	472.44	269.29-	203.15
100003646	CHEMICAL - HALAD-322 - 50 LB SACK 507-775516.00144 / CHEMICAL - HALAD-322 - 50 LB SACK	125.00	LB		10.32	1,290.00	735.30-	554.70
100005049	Chemical - Flocele (25 lb sk) XXXXXXX 890.50071 / FLOCELE - 3/8 - 25 LB SACK	67.00	LB		2.72	182.24	103.88-	78.36
3965	HANDLE&DUMP SVC CHRГ, CMT&ADDITIVES,ZI 500-207 NUMBER OF EACH	270.00 1	CF each		2.82	761.40	434.00-	327.40
76400	ZI MILEAGE,CMT MTLs DEL/RET MIN 500-306 / MILEAGE,CMTG MTLs DEL/RET PER/TON ML.MIN NUMBER OF TONS	457 1.00	MI ton		1.72	786.04	448.04-	338.00
SALES ORDER AMOUNT						17,139.27	9,769.38-	7,369.89
Sales Tax - State								242.85
Sales Tax - County								8.47
Sales Tax - City/Loc								45.82
SALES ORDER TOTAL								7,667.03 US Dollars
Total Weight: 11,945.62 KG								

INVOICE INSTRUCTIONS:

Operator Name:
Customer Agent:Halliburton Approval: X _____
Customer Signature: X _____

FEB 13 2003

ORIGINAL

Schlumberger KCC WICHITA Service Order

2002-Sep-04

Customer CHEYENNE DRILLING		Person Taking Call Carbarn, Charles		Desired Location Ulysses, KS		Order Date 2001-Oct-24		Job Number 2205440627																					
Well Name and Number LENORMAN		Legal Location		Field		County Seward		State/Province KS																					
Well Identifier: 0630443308		API / UWI:																											
Rig Name		Well Age New		Sales Engineer Rozch, Danny			Job Type Conn Surface Casing																						
Time Well Ready: 10/27/2001		Deviation		Bit Size in		Well MD ft		Min TVD ft																					
Treat Down		Packer Type		Packer Depth ft		Wellhead Connection Single cement head		WHP on Location 250																					
Casing						Max Allowed Pressure		Max Allowed AnnPressure																					
<table border="1"> <thead> <tr> <th>Depth, ft</th> <th>Size, in</th> <th>Weight, lb/ft</th> <th>Grade</th> <th>Thread</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>					Depth, ft	Size, in	Weight, lb/ft	Grade	Thread																Services Instructions: Safety Cement Surface Casing per customers request.				
Depth, ft	Size, in	Weight, lb/ft	Grade	Thread																									
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<table border="1"> <thead> <tr> <th>Top, ft</th> <th>Bottom, ft</th> <th>WPI</th> <th>No. of shots</th> <th>Total Interval</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>					Top, ft	Bottom, ft	WPI	No. of shots	Total Interval																				
Top, ft	Bottom, ft	WPI	No. of shots	Total Interval																									
Extra Equipment: * TAKE 8 5/8" GUIDE SHOE & THREAD LOCK KIT, 4 - 8 5/8 regular centralizers, 1 Hinge type 8 5/8" stop ring, 2 - 8 5/8 cement basket, 1 - 8 5/8 insert float, flapper type																													
Expected On Location: 10/27/2001					Ready To Pump:																								

Contact	Voice	Mobile	FAX	Notes
Colantonio, Mike	620-271-4024			

Notes:
 8 5/8 Head, Swedge and Manifold and top plug (plastic)

Directions:
 Haynes east side, county rd 4 go 3 1/2 east 1 south, signs trail lease rd 5 miles to steel gate, 1 mile to trailer house, fork in road, take left fork past trees and back right to right

Other Notes:
 carry 200 lbs of S001 on the side

Service Contract Receipt



Fluid System: **SCHLUMBERGER TECHNOLOGY CORPORATION**

Job Number

Head			
720 Sls Class 35/65 Cement + 6 % BWOB D020 + 0.25lb/sk D029 + 2% BWOB 8001			
Density:	12.2 lb/gal	Thickening Time:	+7 hrs
Yield:	2.17 ft ³ /sk		
H2O Mix:	17.7 gal/sk		
H2O:	12744 gal	Eq. Sack Weight:	66.7 lb
		Total Blend:	720 sacks
Dowell Code	Concl Amount	Total Quantity	
D152	27.8 lb/sk	19072	
8001	2 % BWOB	1277.25	
D029	0.25 lb/sk	180	
D020	6 % BWOB	3631.84	
D003	61.1 lb/sk	43692	

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Head			
150 Sls Class 'C' Cement + 2 % BWOB 8001 + 0.25lb/sk D29			
Density:	14.8 lb/gal	Thickening Time:	
Yield:	1.34 ft ³ /sk		
H2O Mix:	6.33 gal/sk		
H2O:	949.5 gal	Eq. Sack Weight:	94 lb
		Total Blend:	150 sacks
Dowell Code	Concl Amount	Total Quantity	
D029	0.25 lb/sk	37.5	
8001	2 % BWOB	282	
D903	94 lb/sk	14100	

Top Job			
100 sls Class H			
Density:	14.8 lb/gal	Thickening Time:	
Yield:	1.34 ft ³ /sk		
H2O Mix:	6.3 gal/sk		
H2O:	630 gal	Eq. Sack Weight:	94 lb
		Total Blend:	100 sacks
Dowell Code	Concl Amount	Total Quantity	
D866	94 lb/sk	9400	

neg
bill me West 9/4

Schlumberger

Aug. 22, 2002

ORIGINAL

Cheyenne Drilling
Wray Valentine
Tel: cheyenne@gcnet.com

RECEIVED

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200% EXCESS

KCC WICHITA

Wellbore
Location 15-34S-31W
Wichita County, Kansas

Run 1,400 ft of 8-5/8" casing in 12-1/4" OH using 175% excess, with 720 sks 35/65 Litepoz/Class "C" Cement + 6% D20 Bentonite + 2% S1 Calcium Chloride + 0.25 pps D29 followed by 150 sks Class "C" Cement + 2% S1 Calcium Chloride + 0.25 pps D29 Cellophane Flakes: (take 100 sks Class C + 2% S1 loose)

Casing Depth:		1,400	ft
Open Hole Diameter:	12-1/4"	0.8185	cuft/ft
Casing Size:	8-5/8"	0.4057	cuft/ft
Annular Volume:		0.4127	cuft/ft

CEM: 10 bbls Fresh Water

Lead Cement: 720 sks 35/65 Litepoz/Class "C" Cement + 6% D20 Bentonite + 2% S1 Calcium Chloride + 1/4 lb D29 Cellophane Flakes/sk

Density:		12.2	ppg
Yield:		2.17	cuft/sk
Mix Water:		17.7	gals/sk
Feet of Fill:		1,250	ft
Excess:		200	%
Volume Required:		1,418.7	cuft

Lead System Cement: 720 SACKS

Tail Cement: 150 sks Class "C" Cement + 2% S1 Calcium Chloride + 0.25 pps D29 Cellophane Flakes

Density:		14.8	ppg
Yield:		1.34	cuft/sk
Mix Water:		6.3	gals/sk
Feet of Fill:		150	ft
Excess:		200	%
Volume Required:		185.72	cuft
Tail System Cement		138.59	sks

Shoe Joint:			
Volume: ID 8.097"		0.3576	cuft/ft
Length:		40	ft
Volume Required:		14.304	cuft
Tail System Cement		10.87	sks

Tail System Cement: 150 SACKS

Running Hardware:

- | | | | | | |
|---|----|-----------------------------------|---|----|-------------------------------|
| 1 | ea | 8-5/8" Insert Float, Flapper Type | 2 | ea | 8-5/8" Cementing Baskets |
| 4 | ea | 8-5/8" Regular Centralizers | 1 | ea | K232, Thread Locking Compound |
| 1 | ea | 8-5/8" Top Plug, Plastic | | | |

SCHLUMBERGER DISCOUNTED PRICE: \$ 9,098.95



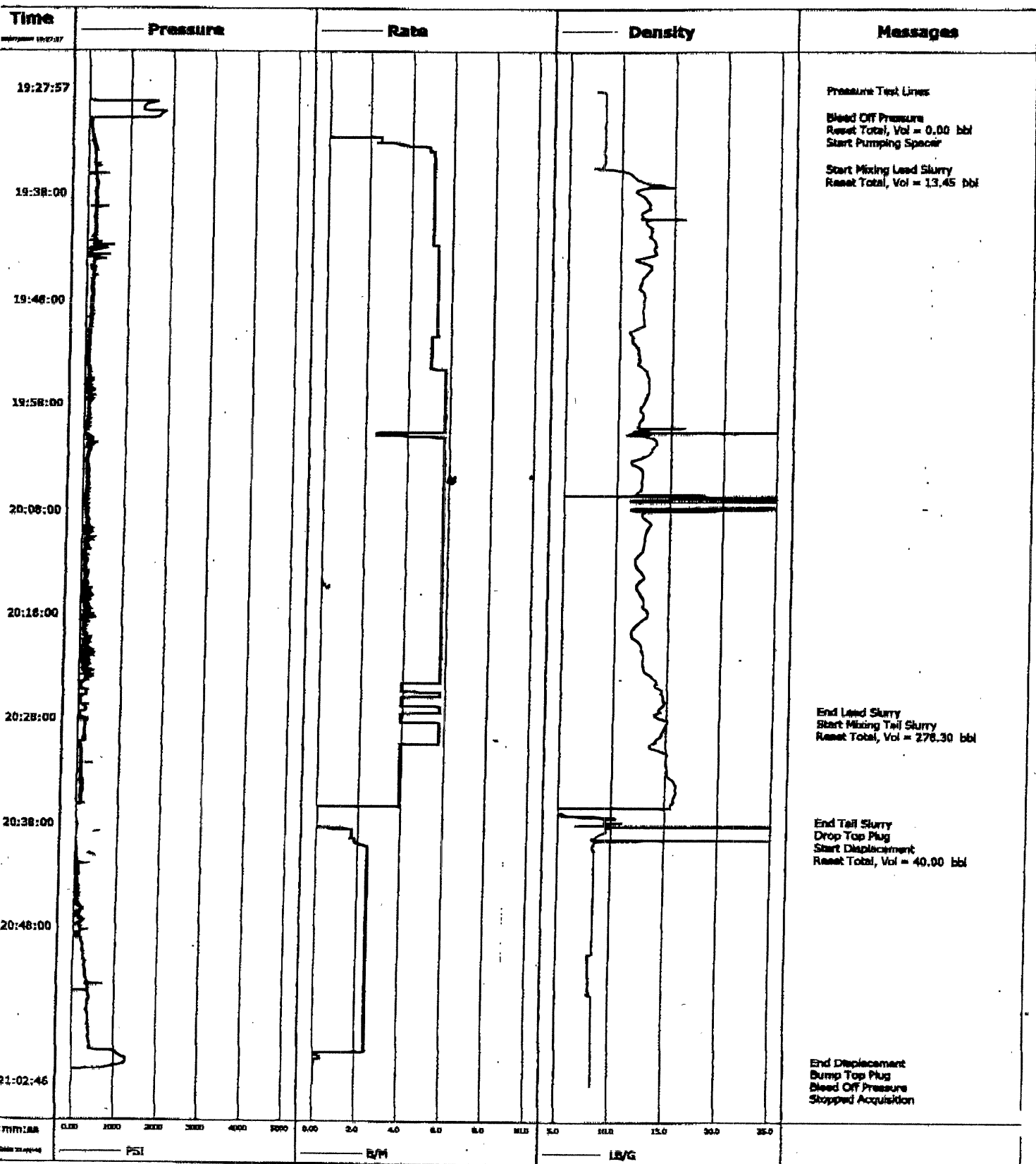
Cementing Job Report

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Well	LENORMAN	Client	CHEYENNE
Field		SIR No.	
Engineer	Doug Strano	Job Type	PRODUCTION
Country	United States	Job Date	09-07-2002

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Cementing Service Report

Customer CHEYENNE DRILLING						Job Number 2205440627					
Well LENORMAN			Location (legal)			Schlumberger Location Ulysses, KS			Job Start 2002-Sep-07		
Field		Formation Name/Type		Deviation		BH Size in		Well BOP 1,450 ft		Well TVD 1,450 ft	
County Seward		State/Province KS		BHP psi		BHST °F		BHCT °F		Pore Press. Gradient psi/ft	
Well Master 0630443306		API / UWI		Casing/Liner							
Rig Name		Drilled For Gas		Service Via Land		Depth, ft 1454		Size, in 8.63		Weight, lbm 24	
Offshore Zone		Well Class New		Well Type Exploration		Grade K55		Thread BRD			
Drilling Fluid Type		Max. Density 12.2 lb/gal		Plastic Viscosity cp		Tubing/Drill Pipe					
Service Line Cementing		Job Type Cem Surface Casing		Wellhead Connection Single cement head		Depth, ft		Size, in		Weight, lbm	
Max. Allowed Tubing Pressure 750 psi		Max. Allowed Ann. Pressure psi		Wellhead Connection Single cement head		Perforations/Open Hole					
Service Instructions Safely Cement Surface Casing per customers request.						Top, ft		Bottom, ft		apf	
										No. of Shots	
										Total Interval ft	
										Diameter in	
						Treat Down Casing		Displacement 90.1 bbl		Packer Type	
						Tubing Vol. bbl		Casing Vol. 92.5 bbl		Annular Vol. bbl	
										Packer Depth ft	
										Openhole Vol. bbl	
Casing/Tubing Secured <input checked="" type="checkbox"/>		1 Hole Volume Circulated prior to Cementing <input type="checkbox"/>		Casing Tools				Squeeze Job			
Lift Pressure 597 psi		Pipe Rotated <input type="checkbox"/>		Pipe Recirculated <input type="checkbox"/>		Shoe Type Other		Squeeze Type			
No. Centralizers 4		Top Plug 1		Bottom Plug 0		Shoe Depth 1450 ft		Tool Type			
Cement Head Type Single		Job Scheduled For 10/27/2001		Arrived on Location 2002-Sep-07 16:00		Leave Location 2002-Sep-07 22:00		Stage Tool Type		Tool Depth ft	
								Stage Tool Depth ft		Tail Pipe Size in	
								Collar Type Auto-Fill		Tail Pipe Depth ft	
								Collar Depth 1411 ft		Seg Total Vol. bbl	
Date	Time	Treating Pressure psi	Flow Rate bbbl/min	Density lb/gal	Volume bbbl	S	S	S	Message		
2002-Sep-07	19:27	-10	0.0	8.15	0.0	0	0	0			
2002-Sep-07	19:28	-10	0.0	8.15	0.0	0	0	0			
2002-Sep-07	19:28										
2002-Sep-07	19:28	-10	0.0	8.34	0.0	0	0	0	Pressure Test Lines		
2002-Sep-07	19:29	1290	0.0	8.33	0.0	0	0	0			
2002-Sep-07	19:30	1584	0.0	8.35	0.0	0	0	0			
2002-Sep-07	19:30										
2002-Sep-07	19:30	1670	0.0	8.35	0.0	0	0	0	Bleed Off Pressure		
2002-Sep-07	19:30										
2002-Sep-07	19:30	1665	0.0	8.36	0.0	0	0	0	Reset Total, Vol = 0.00 bbl		
2002-Sep-07	19:31	63	0.0	8.28	0.0	0	0	0			
2002-Sep-07	19:31										
2002-Sep-07	19:31	69	0.0	8.27	0.0	0	0	0	Start Pumping Spacer		
2002-Sep-07	19:32	72	0.0	8.28	0.0	0	0	0			
2002-Sep-07	19:32	123	2.4	8.33	1.3	0	0	0			
2002-Sep-07	19:33	150	4.8	8.22	4.8	0	0	0			
2002-Sep-07	19:34	156	5.0	8.32	8.9	0	0	0			
2002-Sep-07	19:35	196	5.0	7.96	13.1	0	0	0			
2002-Sep-07	19:35	173	5.0	8.60	13.3	0	0	0			
2002-Sep-07	19:35										
2002-Sep-07	19:35	173	5.0	8.63	13.5	0	0	0	Start Mixing Lead Slurry		
2002-Sep-07	19:35										
										Reset Total, Vol = 13.45 bbl	

LENORMAN #		Field		Service Date		Customer			Job Number
				02250-Sep-07		CHEYENNE DRILLING			2206440627
Date	Time	Treating Pressure	Flow Rate	Density	Volume	0	0	0	Message
	24 hr clock	psi	bbbl/min	lb/gal	MM				
2002-Sep-07	19:36	182	5.0	11.17	3.8	0	0	0	
2002-Sep-07	19:37	214	5.0	13.19	8.0	0	0	0	
2002-Sep-07	19:37	191	5.0	11.79	12.2	0	0	0	
2002-Sep-07	19:38	182	5.0	12.66	18.4	0	0	0	
2002-Sep-07	19:39	191	5.0	11.92	20.6	0	0	0	
2002-Sep-07	19:40	191	5.0	12.23	24.8	0	0	0	
2002-Sep-07	19:41	182	5.0	12.85	28.0	0	0	0	
2002-Sep-07	19:42	188	5.0	13.02	33.2	0	0	0	
2002-Sep-07	19:42	219	5.3	13.07	37.4	0	0	0	
2002-Sep-07	19:43	237	5.3	12.06	41.8	0	0	0	
2002-Sep-07	19:44	159	5.3	12.68	46.2	0	0	0	
2002-Sep-07	19:45	159	5.3	12.28	50.6	0	0	0	
2002-Sep-07	19:46	123	5.3	11.86	55.0	0	0	0	
2002-Sep-07	19:47	159	5.3	12.14	59.3	0	0	0	
2002-Sep-07	19:47	127	5.3	12.18	63.7	0	0	0	
2002-Sep-07	19:48	132	5.3	12.11	68.1	0	0	0	
2002-Sep-07	19:49	141	5.3	12.20	72.5	0	0	0	
2002-Sep-07	19:50	123	5.3	11.73	76.9	0	0	0	
2002-Sep-07	19:51	86	5.3	11.12	81.4	0	0	0	
2002-Sep-07	19:52	68	5.0	11.43	85.8	0	0	0	
2002-Sep-07	19:53	63	5.0	11.78	89.8	0	0	0	
2002-Sep-07	19:53	68	5.0	11.78	93.9	0	0	0	
2002-Sep-07	19:54	91	5.7	12.56	98.2	0	0	0	
2002-Sep-07	19:55	72	5.7	12.76	103.0	0	0	0	
2002-Sep-07	19:56	109	5.7	12.79	107.7	0	0	0	
2002-Sep-07	19:57	141	5.7	12.58	112.5	0	0	0	
2002-Sep-07	19:58	81	5.7	12.13	117.2	0	0	0	
2002-Sep-07	19:58	104	5.7	12.29	122.0	0	0	0	
2002-Sep-07	19:59	54	5.7	11.91	126.8	0	0	0	
2002-Sep-07	20:00	63	5.7	24.99	131.5	0	0	0	
2002-Sep-07	20:01	173	5.7	13.56	135.1	0	0	0	
2002-Sep-07	20:02	159	5.7	13.12	139.9	0	0	0	
2002-Sep-07	20:03	104	5.7	11.40	144.7	0	0	0	
2002-Sep-07	20:03	68	5.7	12.18	149.5	0	0	0	
2002-Sep-07	20:04	118	5.7	12.90	154.2	0	0	0	
2002-Sep-07	20:05	109	5.7	12.28	159.0	0	0	0	
2002-Sep-07	20:06	91	5.7	17.63	163.7	0	0	0	
2002-Sep-07	20:07	40	5.7	24.99	168.5	0	0	0	
2002-Sep-07	20:08	91	5.7	12.36	173.3	0	0	0	
2002-Sep-07	20:08	141	5.7	13.04	178.0	0	0	0	
2002-Sep-07	20:09	280	5.7	12.79	182.8	0	0	0	
2002-Sep-07	20:10	251	5.7	12.63	187.5	0	0	0	
2002-Sep-07	20:11	77	5.7	12.52	192.3	0	0	0	
2002-Sep-07	20:12	40	5.7	11.97	197.0	0	0	0	
2002-Sep-07	20:13	63	5.7	11.81	201.8	0	0	0	
2002-Sep-07	20:13	91	5.7	12.43	206.5	0	0	0	
2002-Sep-07	20:14	86	5.7	12.14	211.4	0	0	0	
2002-Sep-07	20:15	164	5.7	12.05	216.1	0	0	0	
2002-Sep-07	20:16	196	5.7	12.59	220.9	0	0	0	
2002-Sep-07	20:17	136	5.7	12.69	225.6	0	0	0	
2002-Sep-07	20:18	210	5.7	12.85	230.4	0	0	0	
2002-Sep-07	20:18	77	5.7	11.84	235.1	0	0	0	
2002-Sep-07	20:19	104	5.7	11.50	239.9	0	0	0	
2002-Sep-07	20:20	141	5.7	12.35	244.6	0	0	0	

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LENORMAN #		Field		Service Date		Customer			Job Number
				02250-Sep-07		CHEYENNE DRILLING			2205440827
Date	Time	Treating Pressure	Flow Rate	Density	Volume				Message
	24 hr clock	psi	bbbl/min	lb/gal	bbbl	0	0	0	
2002-Sep-07	20:21	83	5.7	12.58	249.4	0	0	0	
2002-Sep-07	20:22	31	5.7	12.00	254.1	0	0	0	
2002-Sep-07	20:23	150	5.7	12.77	258.9	0	0	0	
2002-Sep-07	20:23	168	5.7	13.77	283.6	0	0	0	
2002-Sep-07	20:24	49	3.9	14.17	287.7	0	0	0	
2002-Sep-07	20:25	164	5.7	14.57	271.6	0	0	0	
2002-Sep-07	20:26	40	3.9	14.60	275.2	0	0	0	
2002-Sep-07	20:26								End Lead Slurry
2002-Sep-07	20:26	164	5.7	14.20	277.9	0	0	0	
2002-Sep-07	20:26	159	5.7	14.24	278.1	0	0	0	
2002-Sep-07	20:27								Start Mixing Tail Slurry
2002-Sep-07	20:27	159	5.7	14.29	278.3	0	0	0	Reset Total, Vol = 278.30 bbl
2002-Sep-07	20:27	141	5.7	13.83	1.2	0	0	0	
2002-Sep-07	20:28	173	3.9	15.03	4.6	0	0	0	
2002-Sep-07	20:28	155	5.7	14.05	9.1	0	0	0	
2002-Sep-07	20:29	159	5.7	14.02	13.6	0	0	0	
2002-Sep-07	20:30	54	3.9	13.57	18.1	0	0	0	
2002-Sep-07	20:31	77	3.9	15.00	21.4	0	0	0	
2002-Sep-07	20:32	77	3.9	14.86	24.6	0	0	0	
2002-Sep-07	20:33	95	3.9	15.10	27.9	0	0	0	
2002-Sep-07	20:33	86	3.9	15.75	31.1	0	0	0	
2002-Sep-07	20:34	81	3.9	15.94	34.4	0	0	0	
2002-Sep-07	20:35	114	3.9	15.77	37.8	0	0	0	
2002-Sep-07	20:36	-19	0.0	4.48	40.0	0	0	0	
2002-Sep-07	20:37	-15	0.0	9.31	40.0	0	0	0	
2002-Sep-07	20:37	-15	0.0	9.28	40.0	0	0	0	
2002-Sep-07	20:37								End Tail Slurry
2002-Sep-07	20:37	-15	0.0	9.28	40.0	0	0	0	
2002-Sep-07	20:37								Drop Top Plug
2002-Sep-07	20:37	-15	0.0	9.26	40.0	0	0	0	
2002-Sep-07	20:37								Start Displacement
2002-Sep-07	20:37								Reset Total, Vol = 40.00 bbl
2002-Sep-07	20:37	-1	0.0	7.51	40.0	0	0	0	
2002-Sep-07	20:38	22	0.0	9.38	0.0	0	0	0	
2002-Sep-07	20:38	8	1.6	8.54	1.1	0	0	0	
2002-Sep-07	20:39	-10	2.0	8.27	2.8	0	0	0	
2002-Sep-07	20:40	17	2.4	8.36	4.5	0	0	0	
2002-Sep-07	20:41	49	2.4	8.35	6.5	0	0	0	
2002-Sep-07	20:42	65	2.4	8.35	8.5	0	0	0	
2002-Sep-07	20:43	36	2.4	8.35	10.8	0	0	0	
2002-Sep-07	20:43	63	2.4	8.35	12.6	0	0	0	
2002-Sep-07	20:44	77	2.4	8.36	14.8	0	0	0	
2002-Sep-07	20:45	31	2.4	8.36	16.6	0	0	0	
2002-Sep-07	20:46	159	2.4	8.36	18.6	0	0	0	
2002-Sep-07	20:47	150	2.4	8.37	20.6	0	0	0	
2002-Sep-07	20:48	155	2.4	8.38	22.7	0	0	0	
2002-Sep-07	20:48	91	2.4	8.33	24.7	0	0	0	
2002-Sep-07	20:49	205	2.4	8.33	26.7	0	0	0	
2002-Sep-07	20:50	226	2.4	7.99	28.5	0	0	0	
2002-Sep-07	20:51	260	2.4	8.00	30.5	0	0	0	
2002-Sep-07	20:52	292	2.4	8.02	32.5	0	0	0	
2002-Sep-07	20:53	338	2.4	8.09	34.8	0	0	0	
2002-Sep-07	20:53	356	2.4	8.09	36.9	0	0	0	

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Well		LENORMAN #		Field		Service Date		Customer		Job Number	
						02/20-Sep-07		CHEYENNE DRILLING		2205440827	
Date	Time	Treating Pressure	Flow Rate	Density	Volume				Message		
	24 hr clock	psi	bbbl/min	lb/gal	bbbl						
2002-Sep-07	20:54	384	2.4	8.35	38.9	0	0	0			
2002-Sep-07	20:55	347	2.4	8.36	40.9	0	0	0			
2002-Sep-07	20:56	361	2.4	8.36	42.9	0	0	0			
2002-Sep-07	20:57	379	2.4	8.36	45.0	0	0	0			
2002-Sep-07	20:58	388	2.4	8.36	47.0	0	0	0			
2002-Sep-07	20:58	402	2.4	8.36	49.0	0	0	0			
2002-Sep-07	20:59	1029	0.0	8.33	50.7	0	0	0			
2002-Sep-07	21:00	1258	0.0	8.36	50.8	0	0	0			
2002-Sep-07	21:00								End Displacement		
2002-Sep-07	21:00	1258	0.0	8.36	50.8	0	0	0	Bump Top Plug		
2002-Sep-07	21:00	1258	0.0	8.36	50.8	0	0	0			
2002-Sep-07	21:01	233	0.0	8.37	50.8	0	0	0			
2002-Sep-07	21:02	-10	0.0	8.37	50.8	0	0	0			
2002-Sep-07	21:02										
2002-Sep-07	21:02	-10	0.0	8.37	50.8	0	0	0	Bleed Off Pressure		

Post Job Summary									
Average Pump Rates, bpm					Volume of Fluid Injected, bbl				
slurry	N2	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2		
4.3			5.9	314	0	0			
Treating Pressure Summary, psi					Breakdown Fluid				
Maximum	Final	Average	Bump Plug to	Breakdown	Volume	Density			
401	415	230	1200						
Avg. N2 Percent		Designated Slurry Volume		Displacement		Mix Water Temp		<input checked="" type="checkbox"/> Cement Circulated to Surface? Volume 70 bbl <input type="checkbox"/> Washed Thrust Parts To R	
		320 bbl		90.1 bbl		77 °F			
Customer or Authorized Representative				Schlumberger Representative		Strano, Douglas		<input type="checkbox"/> Circulation Lost <input checked="" type="checkbox"/> Job Completed	
<i>[Signature]</i>				<i>[Signature]</i>					

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