

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

API NO. 15 - 075-20791 0000 Docket No. E-28,043

County Hamilton
 Ap. _____ E
 N/2 - NW - NE - NW Sec. 14 Twp. 21 Rge. 41 X W

165' Feet from S / N (circle one) Line of Section
1596' 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 1411 Well # SWD

Field Name Bradshaw

Producing Formation Council Grove

Elevation: Ground 3622.1' KB 3627'

Total Depth 3210' PBDT 3158'

Amount of Surface Pipe Set and Cemented at 352' Feet

Multiple Stage Cementing Collar Used? Yes X No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from 3210'

feet depth to Surface w/ 500 sx cmt

Drilling Fluid Management Plan
 (Data must be collected from the Reserve Pit) **ALTI EIH 9-6-02**

Chloride content 47000 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. _____

Operator: License # 32971

Name: Dominion Oklahoma Texas E&P, Inc.

Address: Suite 600

14000 Quail Springs Parkway

City/State/Zip Oklahoma City, OK 73134

Purchaser: NA

Operator Contact Person: Lenora Sawyer

Phone (405) 748-2725

Contractor: Name Cheyenne Drilling

License: 5382

Wellsite Geologist: NA

Designate Type of Completion
 New Well Re-Entry Workover

Oil 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 PBDT
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Inj?) Docket No. E-28043

7/25/02 7/27/02 7/31/02

Spud Date Date Reached TD Completion Date

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.

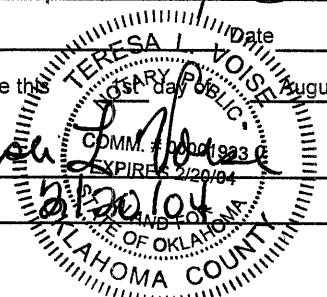
Signature Lenora Sawyer

Title Regulatory Specialist Date 8/1/02

Subscribed and sworn to before me this _____ day of _____ August 20 02

Notary Public Jessica L. Moore

Date Commission Expires 8/20/04



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 <input type="checkbox"/> NGPA
KGS	<input type="checkbox"/>	Plug <input type="checkbox"/> Other (Specify)

Operator Name Dominion Oklahoma Text E&P, Inc. Lease Name HCU 1411 Well # SWD

Sec. 14 Twp. 21 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 Sheet

Electric Log Run Yes No
 (Submit Copy.)

List All E.Logs Run:

Gamma Ray - Collar Log

MIT witnessed by KCC representative, Kevin Strube on 7/31/02.

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#	352'	65/35 Lt. Poz Cl "H"	70 100	2%cc+1/4#flocele 2%cc+1/4#flocele
Production	7-7/8"	5-1/2"	15.5#	3210'	Cl "C"	250	3%D79,0.2%D46 0.25 pps D29
					CL "C"	250	2%S1+0.25 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 Specify Footage of Each Interval Perforated		Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Materials Used)		Depth
	4 spf	3042-3128'		Acidize down tubing w/6000 gal 15% HCl acid + 90 bbls lease water w/ball sealers. Flush w/150 bbls. Lease water.	

TUBING RECORD		Size	Set At	Packer At	Liner Run
		2-7/8"	3015'	3015'	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Inj.			Producing Method		
			<input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input checked="" type="checkbox"/> Other (Explain)		
Estimated Production Per 24 Hours	Oil Bbls	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

Disposition of Gas: Vented Sold Used on Lease Open Hole Perf. Dually Comp. Commingled
 (If Vented, submit ACO-18.) Other (Specify) SWD

DRILLER'S LOG

DOMINION EXPLORATION AND PRODUCTION
HCU 14-11 SWD
SECTION 14-T21S-R41W
HAMILTON COUNTY, KANSAS

COMMENCED: 07-25-02
COMPLETED: 07-27-02

SURFACE CASING: 352' OF 8 5/8"
CMTD W/70 SKS POZ C + 2% CC +
1/4#/SK FLOCELE. TAILED W/100
SKS CLASS C + 2% CC + 1/4#/SK
FLOCELE

FORMATION	DEPTH
SURFACE HOLE	0 - 352
RED BED, SANDSTONE & CLAY	352 - 1503
RED BED	1503 - 3210 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

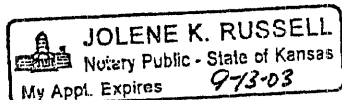
STATE OF KANSAS: ss:

SUBSCRIBED AND SWORN TO BEFORE ME THIS 30TH DAY OF JULY, 2002.

JOLENE K. RUSSELL



NOTARY PUBLIC





Service Order

2002-Jul-24

Customer CHEYENNE DRILLING		Person Taking Call Cambem, Charles		Dowell Location Ulysses, KS		Order Date 2002-Jul-25		Job Number 2205440450	
Well Name and Number ACU 14-11			Legal Location 35-17S-40W		Field		County greely		State/Province ks
Well Master: 0690435868			API / UWI:						
Rig Name Cheyenne Rig 11		Well Age New		Sales Engineer Roach, Daniel			Job Type Cem Surface Casing		
Time Well Ready:		Deviation		Bit Size in		Well MD ft		Well TVD ft	
						BHP psi		BHST °F	
								BHCT °F	
Treat Down Casing		Packer Type		Packer Depth ft		Wellhead Connection		HHP on Location	
								Max Allowed Pressure	
								Max Allowed Ann Pressure	
Casing					Services Instructions: Safely Cement Surface Casing per customers request.				
Depth, ft	Size, in	Weight, lb/ft	Grade	Thread					
Tubing					Extra Equipment: * SLB TO PROVIDE THIS FLOAT EQUIPMENT* 2 - 8 5/8" Regular Centralizers (1 1/2" Bow) 1 - 8 5/8" Top Plug (Plastic) 1 - Thread Lock Kit 1 - 8 5/8" Insert Float, Flapper type				
Depth,	Size, in	Weight, lb/ft	Grade	Thread					
Perforated Intervals									
Top, ft	Bottom, ft	spf	No. of Shots	Total Interval					
				ft					
				Diameter					
				in					
Expected On Location:					Ready To Pump:				

Contact	Voice	Mobile	FAX	Notes
Cheyenne Drilling				

Notes:
 8 5/8" Casing
 8 5/8 Cement Head and top plug & swedge
 8 5/8 set at 350

Directions:
 Syracuse - 17 N - 1 3/4 W - S into

Other Notes:

Comments:

Fluid Systems:

Lead			
70 Sacks 35/65 LP3/Class "C" Cement + 6% D20 + 2% S1 + 1/4 lb/sk D29			
Density:	12.2 lb/gal	Thickening Time:	+7 hrs
Yield:	2.17 ft ³ /sk		
H2O Mix:	11.878 gal/sk		
H2O:	831.46 gal	Eq. Sack Weight:	88.75 lb
		Total Blend:	70 sacks
Dowell Code	Conc/ Amount	Total Quantity	
S001	2 % BWOB	124.25	
D029	0.25 lbs/sk	17.5	
D020	6 % BWOB	372.75	
D132	27.65 lbs/sk	1935.5	
D903	61.1 lbs/sk	4277	

Tail			
100 Sacks Class "C" Cement + 2% S1 + 1/4 lb/sk D29			
Density:	14.8 lb/gal	Thickening Time:	+4 hrs
Yield:	1.34 ft ³ /sk		
H2O Mix:	6.33 gal/sk		
H2O:	633 gal	Eq. Sack Weight:	94 lb
		Total Blend:	100 sacks
Dowell Code	Conc/ Amount	Total Quantity	
D029	0.25 lbs/sk	25	
S001	2 % BWOB	188	
D903	94 lbs/sk	9400	



Cementing Service Report

Customer: Dominion / Cheyenne Drilling		Job Number: 2205440450	
Well: HCU 14-11	Location (legal): 35-175-40W	Schlumberger Location: Ulysses, KS	Job Start: 1430
Field:	Formation Name/Type:	Deviation:	ERT Size: 12 1/4 in
Country: Greely	State/Province: Ks	BHP: 320	Well MD: 320 ft
Well Master:	API / UWI:	BHST: 320	Well TVD: 320 ft
Rig Name: Cheyenne Rig B	Drilled For: SWD	Service Via:	Pore Press. Gradient: psi/ft
Offshore Zone:	Well Class: New	Well Type: Development	Casing/Liner: Grade: 8RD
Drilling Fluid Type: Other	Max. Density: 9.3	Plastic V _h : 33	Tubing/Drill Pipe: Grade: 8RD
Service Line: Cementing	Job Type: Cem Prod Casing	Perforations/Open Hole:	
Max. Allowed Tubing Pressure: psi	Max. Allowed Ann. Pressure: psi	Wellhead Connection:	Top, ft: 19.7
Service Instructions: Safety Cement Surface Casing per customers request.		Wellhead Connection:	Bottom, ft: 23.0
Casing/Tubing Secured <input checked="" type="checkbox"/>		1 Hole Volume Circulated prior to Cementing <input type="checkbox"/>	sq ft: 23.0
Lift Pressure: psi	Pipe Retained <input type="checkbox"/>	Pipe Reciprocated <input type="checkbox"/>	No. of Shots: 1
No. Centralizers: 2	Top Plugs: 1	Bottom Plugs:	Total Interval: ft
Cement Head Type: Single	Job Scheduled For:	Arrival on Location: 0600	Diameter: in
Job Scheduled For:	Arrival on Location:	Leave Location: 1630	Tract Down: Casing
Casing Tools:		Squeeze Job:	
Shoe Type: Guide		Squeeze Type:	
Shoe Depth:		Tool Type:	
Stage Tool Type:		Tool Depth: ft	
Stage Tool Depth: ft		Tail Pipe Size: in	
Collar Type: None		Tail Pipe Depth: ft	
Collar Depth: ft		Sqr Total Vol: bbbl	

Date	Time	Tramming Pressure	Flow Rate	Density	Volume	0	0	0	Message
	24 hr clock	psi	bbbl/min	lb/gal	bbbl	0	0	0	
7-25-02	1445	0	0.0		0.0	0	0	0	Test lines to 500 psi
	1451	5	4	12.4	0.0	0	0	0	Start lead coat
	1452	0	4	12.4	0.0	0	0	0	END Lead
	1453	0	4	14.8	0.0	0	0	0	Start Tail
	1458	0	4	14.8	0.0	0	0	0	END Tail
	1500	0.0	6	8.34	0.0	0	0	0	Drop Plug
	1503	0.0			0.0	0	0	0	Start displacement
		0.0			0.0	0	0	0	Drop Plug 400 psi
		0.0			0.0	0	0	0	
		0.0			0.0	0	0	0	
		0.0			0.0	0	0	0	Cement to Surface
		0.0			0.0	0	0	0	at 1502
		0.0			0.0	0	0	0	6 BBLS cement
		0.0			0.0	0	0	0	to surface
		0.0			0.0	0	0	0	
		0.0			0.0	0	0	0	



Cementing Service Report

Customer Dominion Exploration & Production						Job Number 2205440546					
Well HCU SWD 1411			Location (Legal) 14-21S-41W			Schlumberger Location Ulysses, KS		Job Start			
Field		Formation Name/Type		Deviation	Bit Size in	Well MD 3,210 ft	Well TVD 3,210 ft				
County HAMILTON		State/Province KS		BHP psi	BHST °F	BHCT °F	Pore Press. Gradient psi/ft				
Well Master: 0630435868		API / UWI:		Casing/Liner							
Rig Name		Drilled For Disposal		Service Via Land		Depth, ft 3210	Size, in 5.5	Weight, lb/ft 15.5	Grade K55	Thread 8RD	
Offshore Zone		Well Class New		Well Type Other		Tubing/Drill Pipe					
Drilling Fluid Type Other		Max. Density 9.3 lb/gal		Plastic Viscosity 33 cp		Depth	Size, in	Weight, lb/ft	Grade	Thread	
Service Line Cementing		Job Type Cem Prod Casing		Perforations/Open Hole							
Max. Allowed Tubing Pressure 1000 psi		Max. Allowed Ann. Pressure psi		Wellhead Connection 5.5 cement head		Top, ft	Bottom, ft	spf	No. of Shots	Total Interval ft	
Service Instructions CEMENT PRODUCTION STRING AS PER DOMINION REQUEST											
Treat Down Casing		Displacement 75.8 bbl		Packer Type		Packer Depth ft		Diameter in			
Tubing Vol. bbl		Casing Vol. 75.5 bbl		Annular Vol. bbl		Open Hole 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: psi				Shoe Type: Guide				Squeeze Type			
Pipe Rotated <input type="checkbox"/>				Pipe Reciprocated <input type="checkbox"/>				Shoe Depth: ft		Tool Type:	
No. Centralizers: 12		Top Plugs: 1		Bottom Plugs:		Stage Tool Type:		Tool Depth: ft			
Cement Head Type:				Stage Tool Depth: ft		Tail Pipe Size: in					
Job Scheduled For:		Arrived on Location: 2002-Jul-27 4:00		Leave Location:		Collar Type: Auto-Fill		Tail Pipe Depth: ft			
						Collar Depth: ft		Seq Total Vol: bbl			
Date	Time	Trusting Pressure psi	Flow Rate bbl/min	Density lb/gal	Volume bbl	0	0	0	Message		
2002-Jul-27	8:18	-15	0.0	8.30	0.0	0	0	0			
2002-Jul-27	8:19	-10	0.0	8.30	0.0	0	0	0			
2002-Jul-27	8:19	4	0.2	8.30	0.0	0	0	0			
2002-Jul-27	8:19								Pressure Test Lines		
2002-Jul-27	8:20	567	0.2	8.30	0.2	0	0	0			
2002-Jul-27	8:20								Bleed Off Pressure		
2002-Jul-27	8:20	960	0.0	8.30	0.3	0	0	0			
2002-Jul-27	8:21	31	0.0	8.30	0.3	0	0	0			
2002-Jul-27	8:21	8	0.0	8.30	0.3	0	0	0			
2002-Jul-27	8:21								Reset Total, Vol = 0.25 bbl		
2002-Jul-27	8:22	8	0.0	8.30	0.3	0	0	0			
2002-Jul-27	8:22								Start Pumping Water		
2002-Jul-27	8:22	4	0.0	8.30	0.3	0	0	0			
2002-Jul-27	8:22	168	3.0	8.30	0.6	0	0	0			
2002-Jul-27	8:22								Reset Total, Vol = 0.33 bbl		
2002-Jul-27	8:22	159	4.0	8.30	0.8	0	0	0			
2002-Jul-27	8:22								Reset Total, Vol = 0.17 bbl		
2002-Jul-27	8:22	242	5.6	8.30	2.8	0	0	0			
2002-Jul-27	8:23	246	5.6	8.20	7.5	0	0	0			
2002-Jul-27	8:24	260	5.7	9.29	9.9	0	0	0			
2002-Jul-27	8:24								Reset Total, Vol = 9.93 bbl		
2002-Jul-27	8:24								Reset Total, Vol = 0.76 bbl		

Well		Field			Service Date		Customer			Job Number
HCU SWD #1411							Dominion Exploration & Production			2205440548
Date	Time	Treating Pressure	Flow Rate	Density	Volume	0	0	0	Message	
	24 hr clock	psi	bb/min	lb/gal	bbf	0	0	0		
2002-Jul-27	8:24	283	5.7	10.20	10.7	0	0	0		
2002-Jul-27	8:24								End Water	
2002-Jul-27	8:24	283	5.7	10.31	11.0	0	0	0		
2002-Jul-27	8:24	297	5.7	11.27	11.6	0	0	0		
2002-Jul-27	8:24								Start Mixing Lead Slurry	
2002-Jul-27	8:24	274	5.7	12.57	12.2	0	0	0		
2002-Jul-27	8:25	301	5.7	11.05	17.0	0	0	0		
2002-Jul-27	8:26	301	5.8	11.92	21.7	0	0	0		
2002-Jul-27	8:27	292	5.8	11.19	26.5	0	0	0		
2002-Jul-27	8:27	274	5.8	11.24	31.3	0	0	0		
2002-Jul-27	8:28	255	5.8	11.35	36.2	0	0	0		
2002-Jul-27	8:29	237	5.8	11.15	41.0	0	0	0		
2002-Jul-27	8:30	228	5.8	11.05	45.8	0	0	0		
2002-Jul-27	8:31	228	5.8	11.33	50.7	0	0	0		
2002-Jul-27	8:32	191	5.8	11.11	55.6	0	0	0		
2002-Jul-27	8:32	187	5.9	11.07	60.6	0	0	0		
2002-Jul-27	8:33	164	5.9	11.42	65.4	0	0	0		
2002-Jul-27	8:34	159	5.9	11.16	70.3	0	0	0		
2002-Jul-27	8:35	146	5.9	11.28	75.2	0	0	0		
2002-Jul-27	8:36	132	5.9	11.11	80.2	0	0	0		
2002-Jul-27	8:37	81	5.7	10.92	85.1	0	0	0		
2002-Jul-27	8:37	109	5.4	11.24	89.6	0	0	0		
2002-Jul-27	8:38	100	5.4	11.40	94.1	0	0	0		
2002-Jul-27	8:39	91	5.4	10.83	98.6	0	0	0		
2002-Jul-27	8:40	114	5.4	11.27	103.1	0	0	0		
2002-Jul-27	8:41	182	5.9	11.14	107.9	0	0	0		
2002-Jul-27	8:42	196	5.8	11.02	112.8	0	0	0		
2002-Jul-27	8:42	255	5.9	11.30	117.6	0	0	0		
2002-Jul-27	8:43	260	5.9	11.21	122.5	0	0	0		
2002-Jul-27	8:44	251	5.9	11.16	127.5	0	0	0		
2002-Jul-27	8:45	265	5.9	11.14	132.4	0	0	0		
2002-Jul-27	8:46	274	5.8	11.05	137.2	0	0	0		
2002-Jul-27	8:47	265	5.8	10.86	142.1	0	0	0		
2002-Jul-27	8:47								End Lead Slurry	
2002-Jul-27	8:47	274	5.8	12.03	143.8	0	0	0		
2002-Jul-27	8:47	283	5.9	12.16	144.0	0	0	0		
2002-Jul-27	8:47								Start Mixing Tail Slurry	
2002-Jul-27	8:47								Reset Total, Vol = 133.84 bbl	
2002-Jul-27	8:47	287	5.8	12.46	144.5	0	0	0		
2002-Jul-27	8:47	283	5.9	12.69	144.9	0	0	0		
2002-Jul-27	8:47								Reset Total, Vol = 0.39 bbl	
2002-Jul-27	8:47	329	6.1	13.72	2.1	0	0	0		
2002-Jul-27	8:48	406	6.6	14.53	7.5	0	0	0		
2002-Jul-27	8:49	370	6.6	14.84	13.0	0	0	0		
2002-Jul-27	8:50	173	5.8	14.35	18.3	0	0	0		
2002-Jul-27	8:51	146	4.7	14.65	23.5	0	0	0		
2002-Jul-27	8:52	191	6.6	14.02	28.0	0	0	0		
2002-Jul-27	8:52	219	6.6	14.69	33.2	0	0	0		
2002-Jul-27	8:53	123	4.6	14.61	38.5	0	0	0		
2002-Jul-27	8:54	178	5.8	14.79	43.2	0	0	0		
2002-Jul-27	8:55	242	6.6	14.90	48.5	0	0	0		
2002-Jul-27	8:56	324	7.8	14.95	54.2	0	0	0		
2002-Jul-27	8:57	251	7.6	13.33	60.8	0	0	0		
2002-Jul-27	8:57	-24	0.0	13.07	60.9	0	0	0		

Well		Field		Service Date		Customer			Job Number
HCU SWD #1411						Dominion Exploration & Production			2205440546
Date	Time	Treating Pressure	Flow Rate	Density	Volume	0	0	0	Message
	24 hr clock	psi	bb/min	lb/gal	bb	0	0	0	
2002-Jul-27	8:58	-24	0.0	12.21	60.9	0	0	0	
2002-Jul-27	8:59	-24	0.0	11.78	60.9	0	0	0	
2002-Jul-27	9:00	-19	0.0	11.17	60.9	0	0	0	
2002-Jul-27	9:01	31	1.6	10.21	61.6	0	0	0	
2002-Jul-27	9:01	31	3.5	10.19	63.0	0	0	0	
2002-Jul-27	9:01								End Tail Skurry
2002-Jul-27	9:01	36	3.5	10.18	63.0	0	0	0	
2002-Jul-27	9:01								Drop Top Plug
2002-Jul-27	9:02	31	4.3	9.56	64.4	0	0	0	
2002-Jul-27	9:02	-15	0.0	9.48	65.2	0	0	0	
2002-Jul-27	9:03	40	0.0	9.41	65.2	0	0	0	
2002-Jul-27	9:03								Start Displacement
2002-Jul-27	9:03	36	5.5	8.38	66.7	0	0	0	
2002-Jul-27	9:04	31	6.3	8.31	71.6	0	0	0	
2002-Jul-27	9:05	77	6.4	8.31	76.9	0	0	0	
2002-Jul-27	9:06	54	6.4	8.31	82.2	0	0	0	
2002-Jul-27	9:07	36	6.4	8.31	87.6	0	0	0	
2002-Jul-27	9:07	320	6.3	8.31	92.9	0	0	0	
2002-Jul-27	9:08	182	6.4	8.31	98.2	0	0	0	
2002-Jul-27	9:09	287	6.4	8.31	103.4	0	0	0	
2002-Jul-27	9:10	384	6.3	8.31	108.7	0	0	0	
2002-Jul-27	9:11	484	6.3	8.31	114.0	0	0	0	
2002-Jul-27	9:12	471	5.1	8.31	118.7	0	0	0	
2002-Jul-27	9:12	562	5.1	8.31	123.0	0	0	0	
2002-Jul-27	9:13	640	5.1	8.31	127.3	0	0	0	
2002-Jul-27	9:14	603	2.9	8.31	130.3	0	0	0	
2002-Jul-27	9:15	640	2.9	8.31	132.8	0	0	0	
2002-Jul-27	9:16	677	2.9	8.31	136.2	0	0	0	
2002-Jul-27	9:17	704	2.9	8.31	137.7	0	0	0	
2002-Jul-27	9:17	722	2.6	8.31	139.0	0	0	0	
2002-Jul-27	9:18	1340	0.2	8.31	140.0	0	0	0	
2002-Jul-27	9:19	1382	0.0	8.31	140.0	0	0	0	
2002-Jul-27	9:19								End Displacement
2002-Jul-27	9:19	297	0.0	8.31	140.0	0	0	0	
2002-Jul-27	9:20	548	0.0	8.31	140.0	0	0	0	
2002-Jul-27	9:21	411	0.0	8.31	140.0	0	0	0	
2002-Jul-27	9:22	521	1.5	6.47	140.2	0	0	0	
2002-Jul-27	9:22	457	0.0	1.97	141.5	0	0	0	
2002-Jul-27	9:23	626	2.1	8.30	142.7	0	0	0	
2002-Jul-27	9:24	727	3.2	8.30	145.0	0	0	0	
2002-Jul-27	9:25	599	0.0	8.30	146.7	0	0	0	
2002-Jul-27	9:25	599	0.0	8.30	146.7	0	0	0	
2002-Jul-27	9:25								Reset Total, Vol = 146.66 bbl
2002-Jul-27	9:26	800	1.4	8.30	146.9	0	0	0	
2002-Jul-27	9:27	548	0.0	8.30	147.0	0	0	0	
2002-Jul-27	9:27	301	0.0	8.30	147.0	0	0	0	
2002-Jul-27	9:28								Bump Top Plug
2002-Jul-27	9:28	301	0.0	8.30	147.0	0	0	0	
2002-Jul-27	9:28	301	0.0	8.30	147.0	0	0	0	
2002-Jul-27	9:28								Shutdown
2002-Jul-27	9:28	-10	0.0	8.30	147.0	0	0	0	
2002-Jul-27	9:28	-15	0.0	8.30	147.0	0	0	0	
2002-Jul-27	9:28								Stop Pumping

Well		Field		Service Date		Customer		Job Number	
HCU SWD #1411						Dominion Exploration & Production		2205440548	
Date	Time	Treating Pressure	Flow rate	Density	Volume	0	0	0	Message
	24 hr clock	psi	bbbl/min	lb/gal	bbbl	0	0	0	
Post Job Summary									
Average Pump Rates, bprm					Volume of Fluid Injected, bbl				
Slurry	N2	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2		
5.3			6.6	200					
Treating Pressure Summary, psi					Breakdown Fluid				
Maximum	Final	Average	Bump Plug to	Breakdown	FreshWater	Volume	Density		
800	707	288	1350			bbbl	8.34 lb/gal		
Avg. N2 Percent	Designed Slurry Volume	Displacement	Mix Water Temp	<input checked="" type="checkbox"/> Cement Circulated to Surface? Volume 25 bbl <i>247 to surface</i> <input type="checkbox"/> Washed Thru Parts To					
	200 bbl	75.5 bbl	72 °F						
Customer or Authorized Representative			Schlumberger Supervisor			<input type="checkbox"/> Circulation Lost <input checked="" type="checkbox"/> Job Completed			
<i>[Signature]</i> AT DOMINION, DARREL			<i>[Signature]</i> Douglas Strano						

Comments:

Fluid Systems:

LEAD			
250 SKS CLASS "C" + 3% D079 + 0.2% D046 + .25 PPS D029			
Density:	11.1 lb/gal	Thickening Time:	
Yield:	3.17 ft ³ /sk		
H2O Mix:	19.9 gal/sk		
H2O:	4975 gal	Eq. Sack Weight:	94 lb
		Total Blend:	250 sacks
Dowell Code	Conc. Amount	Total Quantity	
D029	0.25 lbs/sk	62.5	
D046	0.2 % BWOB	47	
D079	3 % BWOB	705	
D903	94 lbs/sk	23500	

TAR			
250 SKS CLASS "C" + 2% S1 + .25 PPS D29			
Density:	14.8 lb/gal	Thickening Time:	
Yield:	1.34 ft ³ /sk		
H2O Mix:	6.29 gal/sk		
H2O:	1572.5 gal	Eq. Sack Weight:	94 lb
		Total Blend:	250 sacks
Dowell Code	Conc. Amount	Total Quantity	
D029	0.25 lbs/sk	62.5	
S001	2 % BWOB	470	
D903	94 lbs/sk	23500	