

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

Operator: License # 32340
Name: Bluegrass Energy, Inc.
Address: 5727 S. Lewis Suite 700
City/State/Zip: Tulsa, OK 74015
Purchaser: Duke Field Services
Operator Contact Person: Mark Repasky
Phone: (918) 743-8060
Contractor: Name: Cheyenne Drilling
License: 5382 IB KCC
Wellsite Geologist: None
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/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. _____
2/17/2001 2/25/2001 3/30/2001
Spud Date or Date Reached TD Completion Date or Recompletion Date
Recompletion Date

API No. 15 - 071-20740 - ORIGINAL
County: Greeley
NE NW Sec. 27 Twp. 20 S. R. 40 East West
660 feet from S / N (circle one) Line of Section
1980 feet from E / W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
(circle one) NE SE NW SW
Lease Name: Drake Well #: 2-27
Field Name: Bradshaw
Producing Formation: U. Winfield
Elevation: Ground: 3574 Kelly Bushing: 3585
Total Depth: 5406 Plug Back Total Depth: 2948
Amount of Surface Pipe Set and Cemented at 528 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set _____ Feet
If Alternate II completion, cement circulated from 2993
feet depth to surface w/ 445 sx cmt.

Drilling Fluid Management Plan ALT II 9/10/01 IB
(Data must be collected from the Reserve Pit)
Chloride content 7000 ppm Fluid volume 3500 bbls
Dewatering method used evaporation
Location of fluid disposal if hauled offsite:
Operator Name: _____
Lease Name: _____ License No.: _____
Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West
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 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: Mark Repasky
Title: Consulting Engineer Date: 5/10/2001
Subscribed and sworn to before me this 16th day of May 2001.
Notary Public: Kim M. Miller
Date Commission Expires: 9-11-2004

KCC Office Use ONLY

Letter of Confidentiality Attached
If Denied, Yes Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution
KCC

X

Operator Name: Bluegrass Energy, Inc. Lease Name: Drake Well #: 2-27
 Sec. 27 Twp. 20 S. R. 40 East West County: Greeley

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)

List All E. Logs Run:
 Comp Density/ Neutron
 Micro log
 Dual Induction Log
Sonic

<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Name	Top	Datum
Base Stone Corral	2429	+1156
U Winfield	2808	+777
L. Winfield	2840	+745
U Ft Riley	2873	+712
L Ft Riley	2912	+673
Council Grove	3009	+576
Wabaunsee	3601	-16
Topeka	3746	-161
Morrow	5055	-1470

CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> 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	# Sacs Used	Type and Percent Additives
surface	12 1/4	8 5/8"	23.0	528	class C	270	6% gel, 2% CC
production	7 7/8	4 1/2"	10.5	2993	50/50 Poz	445	2% CC 1/4 #

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
1	2821, 2826, 2827, 2828, 2829	750 gals 15 % HCL acid	2821
		10,000 gals 25# gel	2821
		9,800 lbs 16/40 sand	

TUBING RECORD		Size	Set At	Packer At	Liner Run
		2 3/8"	2835	none	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumerd Production, SWD or Enhr.		Producing Method			
3/30/2001		<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 Bbbs.	Gas Mcf	Water Bbbs.	Gas-Oil Ratio	Gravity
	0	31	4		

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

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

Production Interval _____

Operator : BLUEGRASS ENERGY, INC.

Report Date : May, 4, 2001 ORIGINAL

Well/Lease Name & No. : DRAKE 2-27

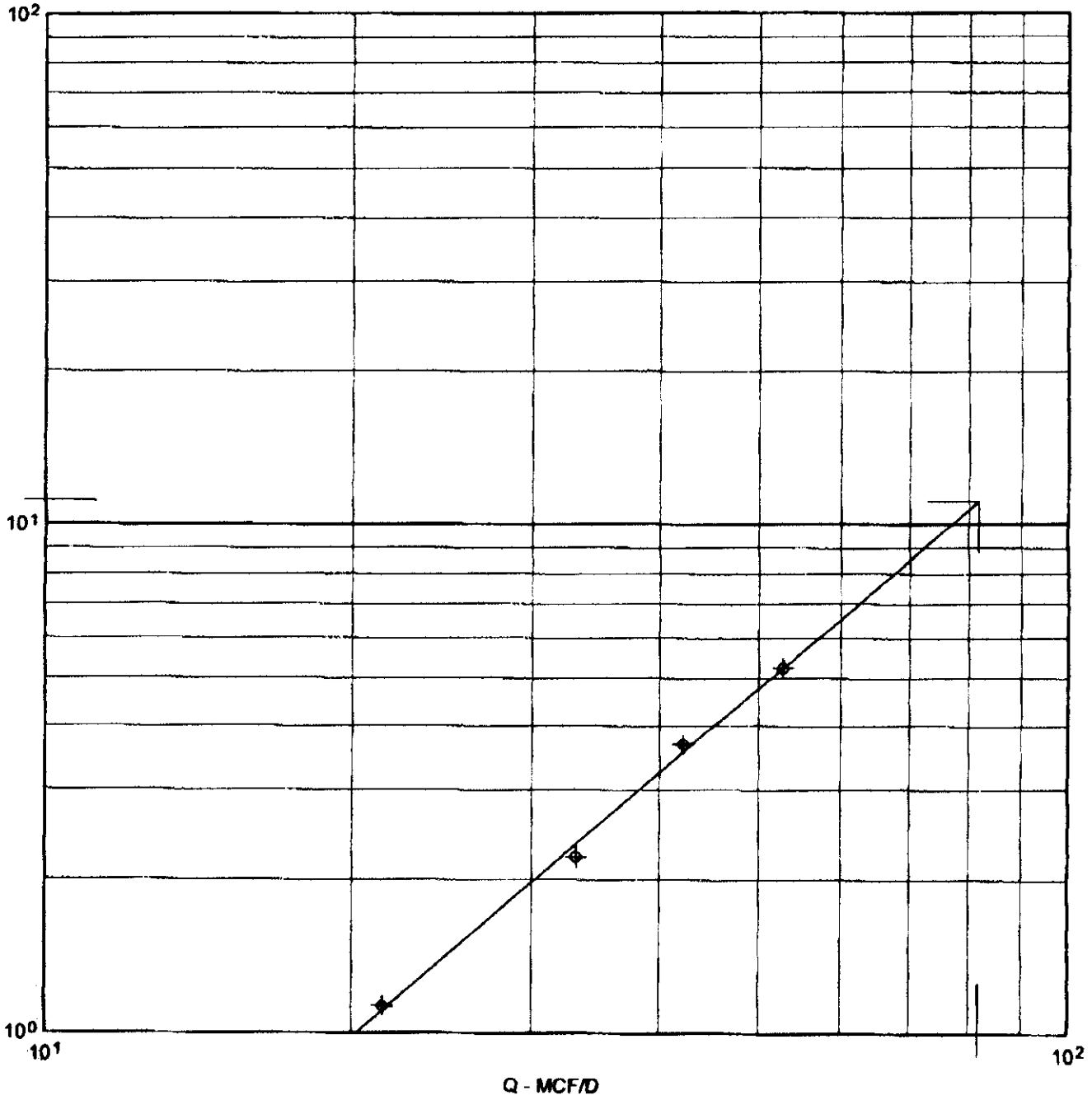
Test Date : 5-3-01

API Well Number : 15 - 071-20740

Sec/Twp/Rgc : 27 - 20S - 40W

County : GREELEY

ORIGINAL



WHAOF = 82 MCF/D

Slope = 1.723

(Pc2 - Pw2) = 11.11 (Thousands)

N = 0.5804

ORIGINAL

ORIGINAL

PRECISION WIRELINE and TESTING
 P.O. BOX 560
 LIBERAL, KANSAS 67905-0560
 316-624-4505

PRODUCER BLUEGRASS ENERGY, INC.
 WELL NAME DRAKE 2-27
 LOCATION 27-20S-40W
 COUNTY GREELEY STATE KS

CSG 4 1/2 WT 10.5 SET # 2993 TD _____ PB 2926 GL _____
 TBG 2 3/8 WT 4.7 SET # 2835 SN _____ PKR _____ KB _____
 PERFS 2821 TO 2829 TO _____ TO _____
 PROVER _____ METER 2" TAPS FLANGE ORIFICE .625 PCR _____ TCR _____
 GG .755 API _____ GM _____ RESERVOIR U. WINFIELD

DATE TIME OF READING	ELAP TIME HOURS	WELLHEAD PRESSURE DATA				MEASUREMENT DATA				LIQUIDS		TYPE TEST:	INITIAL _____ SPECIAL _____ ENDING DATE <u>5-4-01</u>	
		CSG PSIG	Δ P CSG	TBG PSIG	Δ P TBG	BHP PSIG	Δ P BHP	PRESS. PSIG	DIFF.	TEMP	Q MCF/D			COND. BBL.
THURSDAY 5-3-01														AUTO PILOT
1215	72.0	91.1		PUMP ON										
1215				WELL ON 1ST RATE OF MULTI-PT. TEST THROUGH METER RUN.										
1230		89.2	-1.9	PUMP ON			89.1	0.8	46	21				
1245	.5	87.7	-1.5	PUMP ON			87.6	0.8	47	20				
1300		86.4	-1.3	PUMP ON			86.3	0.9	47	22				
1315	1.0	85.6	-0.8	PUMP ON			85.5	0.9	47	21	0			
1315				WELL ON 2ND RATE OF MULTI-PT. TEST THROUGH METER RUN.										
1330		83.5	-2.1	PUMP ON			83.3	2.4	47	35				
1345	1.5	81.7	-1.8	PUMP ON			81.5	2.3	48	33				
1400		80.7	-1.0	PUMP ON			80.4	2.3	48	33				
1415	2.0	80.0	-0.7	PUMP ON			79.7	2.3	49	33	0			
1415				WELL ON 3RD RATE OF MULTI-PT. TEST THROUGH METER RUN.										
1430		77.4	-2.6	PUMP ON			77.1	4.3	48	46				
1445	2.5	75.4	-2.0	PUMP ON			75.0	4.3	50	44				
1500		73.6	-1.8	PUMP ON			73.2	4.2	49	43				
1515	3.0	71.9	-1.7	PUMP ON			71.4	4.1	49	42	0			

ORIGINAL

ORIGINAL

Precision WIRELINE AND TESTING BLUEGRASS ENERGY, INC. DRAKE 2-27

DATE TIME OF READING	ELAP TIME HOURS	WELLHEAD PRESSURE DATA						MEASUREMENT DATA				LIQUIDS		TYPE INITIAL SPECIAL ENDING				
		CSG PSIG	ΔP CSG	TBG PSIG	ΔP TBG	BHP PSIG	ΔP BHP	PRESS. PSIG	DIFF.	TEMP	Q MCF/D	COND BBLs	WATER BBLs	TEST: ANNUAL	RETEST	DATE	5-4-01	
THURSDAY 5-3-01	(CONTD)																	REMARKS PERTINENT TO TEST DATA QUALITY
1515		WELL ON 4TH RATE OF MULTI-PT. TEST THROUGH METER RUN.																
1530		67.0	-4.9	PUMP ON				66.6	8.0	49	57							
1545	3.5	63.9	-3.1	PUMP ON				63.5	7.6	49	55							
1600		62.9	-1.0	PUMP ON				62.4	7.3	49	53							
1615	4.0	62.4	-0.5	PUMP ON				62.0	7.2	49	53	0					OBTAIN GAS SAMPLE	
1615		WELL ON 1PT. TEST																
FRIDAY 5-4-01																		
1215	24.0	40.1		PUMP ON				39.9#	1.0"	52°	17	0					SPOT	

ORIGINAL

18-Feb-01

Schlumberger

Service Order

Customer CHEYENNE DRILLING		Person Taking Call Angela Kovach		Dowell Location Ulysses, KS		OrderDate 2/16/01		Job Number 20202848	
Well Name and Number Drake 2-27			Legal Location		Field		County Greeley		State/Province Kansas
Rig Name Cheyenne Drilling Rig 5		Well Age New	Sales Engineer Charley King			Job Type Cem Surface Casing			
Time Well Ready:		Deviation 0 °	Bit Size 0 in	Well MD 517 ft	Well TVD 517 ft	BHP 0 psi	BHST 85 °F	BHCT 80 °F	
Treat Down Casing	Packer Type	Packer Depth 0 ft	WellHead Connection Single cement head		HHP on Location 0	Max Allowed Pressure 1000		Max Allowed AnnPressure 0	
Casing					Services Instructions: Safely cement 8 5/8 surface casing as per customer's request Bluegrass well				
Depth, ft	Size, in	Weight, lb/ft	Grade	Thread					
517	8.63	24	K55	8RD					
0	0	0			Extra Equipment: 8 5/8 Top Plug 3 centralizers auto fill insert threadlock kit				
Tubing									
Depth,	Size, in	Weight, lb/ft	Grade	Thread					
0	0	0			Perforated Intervals				
0	0	0							
Top, ft	Bottom, ft	spf	No. of Shots	Total Interval					
0	0	0	0	0 ft					
0	0	0	0	Diameter					
0	0	0	0	0 in					

Contact	Voice	Mobile	FAX	Notes
Lou		272-1605		719-340-2062

Notes:
8 5/8 head, swedge and manifold

Directions:

Other Notes:

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AUG 31 2001
KCG WICHITA

Comments:

Fluid Systems:

Lead			
145 sks 35/65 poz/c + 6 % BWOB D020 + 2 % BWOB S001 + 0.125 lbs/sk D130			
Density:	12.3 lb/gal	Thickening Time:	
Yield:	2.1 ft ³ /sk	Viscosity:	cp
H2O Mix:	11.66 gal/sk	Break Time:	
H2O:	1690.7 gal	Eq. Sack Weight:	88.75 lb
Dowell Code	Conc/ Amount	Total Quantity	
D130	0.125 lbs/sk	18.125	
S001	2 % BWOB	257.375	
D020	6 % BWOB	772.125	
D132	27.65 lbs/sk	4009.25	
D903	61.1 lbs/sk	8859.5	

Tail			
125 sks Class C + 2 % BWOB S001 + 0.125 lbs/sk D130 +			
Density:	14.8 lb/gal	Thickening Time:	
Yield:	1.32 ft ³ /sk	Viscosity:	cp
H2O Mix:	6.36 gal/sk	Break Time:	
H2O:	795 gal	Eq. Sack Weight:	94 lb
Dowell Code	Conc/ Amount	Total Quantity	
D130	0.125 lbs/sk	15.625	
S001	2 % BWOB	235	
D903	94 lbs/sk	11750	

Comments:

Fluid Systems:

Lead			
145 sks 35/65 poz/c + 6 % BWOB D020 + 2 % BWOB S001 + 0.125 lbs/sk D130			
Density:	12.3 lb/gal	Thickening Time:	
Yield:	2.1 ft ³ /sk	Viscosity:	cp
H2O Mix:	11.66 gal/sk	Break Time:	
H2O:	1690.7 gal	Eq. Sack Weight:	88.75 lb
Dowell Code	Concl Amount	Total Quantity	
D130	0.125 lbs/sk	18.125	
S001	2 % BWOB	257.375	
D020	6 % BWOB	772.125	
D132	27.65 lbs/sk	4009.25	
D903	61.1 lbs/sk	8859.5	

Tail			
125 sks Class C + 2 % BWOB S001 + 0.125 lbs/sk D130 +			
Density:	14.8 lb/gal	Thickening Time:	
Yield:	1.32 ft ³ /sk	Viscosity:	cp
H2O Mix:	6.36 gal/sk	Break Time:	
H2O:	795 gal	Eq. Sack Weight:	94 lb
Dowell Code	Concl Amount	Total Quantity	
D130	0.125 lbs/sk	15.625	
S001	2 % BWOB	235	
D903	94 lbs/sk	11750	

RECEIVED

AUG 31 2001

KCC WICHITA



Service Order

18-Feb-01

Customer CHEYENNE DRILLING		Person Taking Call Angela Kovach		Dowell Location Ulysses, KS		OrderDate 2/16/01		Job Number 20202848	
Well Name and Number Drake 2-27			Legal Location		Field		County Greeley		State/Province Kansas
Rig Name Cheyenne Drilling Rig 5		Well Age New	Sales Engineer Charley King			Job Type Cem Surface Casing			
Time Well Ready:		Deviation 0 °	Bit Size 0 in	Well MD 517 ft	Well TVD 517 ft	BHP 0 psi	BHST 85 °F	BHCT 80 °F	
Treat Down Casing	Packer Type	Packer Depth 0 ft	WellHead Connection Single cement head		HMP on Location 0	Max Allowed Pressure 1000		Max Allowed AnnPressure 0	
Casing					Services Instructions: Safely cement 8 5/8 surface casing as per customer's request Bluegrass well Extra Equipment: 8 5/8 Top Plug 3 centralizers auto fill insert threadlock kit				
Depth, ft	Size, in	Weight, lb/ft	Grade	Thread					
517	8.63	24	K55	8RD					
0	0	0							
Tubing									
Depth,	Size, in	Weight, lb/ft	Grade	Thread					
0	0	0							
0	0	0							
Perforated Intervals									
Top, ft	Bottom, ft	spf	No. of Shots	Total Interval					
0	0	0	0	0 ft					
0	0	0	0	Diameter					
0	0	0	0	0 in					

Contact	Voice	Mobile	FAX	Notes
Lou		272-1605		719-340-2062

Notes:
8 5/8 head, swedge and manifold

Directions:

Other Notes:

Customer						Job Number	
CHEYENNE DRILLING						20202848	
Well		Location (Legal)		Dowell Location		Job Start	
Drake 2-27				Ulysses, KS		2/18/01	
Field		Formation Name/Type		Deviation	Bit Size	Well MD	Well TVD
		Surface		0 °	0 in	517 ft	517 ft
County		State/Province		BHP	BHST	BHCT	Pore Press. Gradient
Greeley		Kansas		0 psi	85 °F	80 °F	0 psi/ft
Rig Name		Drilled For	Service Via		Casing/Liner		
Cheyenne Drilling Rig		Oil & Gas	Land				
Offshore Zone		Well Class	Well Type		Depth, ft	Size, in	Weight, lb/ft
		New	Exploration		517	8.63	24
					0	0	0
Drilling Fluid Type		Max. Density	Plastic Viscosity		Tubing/Drill Pipe		
Bentonite		9.4 lb/gal	32 cp				
					Depth,	Size, in	Weight, lb/ft
					0	0	0
Service Line		Job Type		Perforations/Open Hole			
Cementing		Cem Surface Casing					
Max. Allowed Tubing Pressure		Max. Allowed Ann. Pressure	Wellhead Connection		Top, ft	Bottom, ft	spf
1000 psi		0 psi	Single cement head		0	0	0
Service Instructions				No. of Shots	Total Interval		
Safely cement 8 5/8 surface casing as per customer's request				0	0	0 ft	
Bluegrass well				Diameter			
				0	0		0 in
		Treat Down	Displacement	Packer Type	Packer Depth		
		Casing	32 bbl		0 ft		
		Tubing Vol.	Casing Vol.	Annular Vol.	OpenHole Vol		
		0 bbl	35 bbl	40 bbl	0 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		Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Shoe Type: Other	
						Shoe Depth: 517 ft	
No. Centralizers: 3		Top Plugs: 1	Bottom Plugs: 0		Stage Tool Type		Tool Depth: 0 ft
Cement Head Type: Single				Stage Tool Depth: 0 ft		Tail Pipe Size: 0 in	
Job Scheduled For:		Arrived on Location:	Leave Location:		Collar Type: Auto-Fill		Tail Pipe Depth: 0 ft
		2/18/01 2:00	2/18/01 9:00		Collar Depth: 478 ft		Sqz Total Vol: 0 bbl
Time	CumVol	Density	Pressure	TotFlowrate	TotVol	Message	
24 hr clock	bbl	PPG	psi	bpm	bbl		
7:54	0	0	0	0	0	START ACQUISITION	
7:54	0.	8.23	50.37	0.	0.		
7:55	0.	8.23	36.63	0.	0.		
7:55	0.	8.23	36.63	0.	0.	Pressure Test Lines	
7:55	0.	8.23	1868	0.	0.		
7:56	0.	8.23	27.47	0.	0.		
7:56	0.	8.23	0.	0.	0.		
7:57	0.	8.23	0.	0.	0.		
7:57	0.	8.45	68.68	0.	0.		
7:57	0.	8.45	68.68	0.	0.	Start Flow Rate 2	
7:57	0.	8.45	68.68	0.	0.	[TotFlowrate]=F[TotFlowrate 2]	
7:58	3.37	8.27	137.4	6.49	3.37		
7:58	6.54	8.27	141.9	6.19	6.54		
7:59	9.66	8.45	151.1	6.11	9.66		
7:59	9.66	8.45	151.1	6.11	9.66	Reset Volume	
7:59	9.66	8.45	151.1	6.11	9.66	[CumVol]=10.06 bbl	
7:59	9.66	8.45	151.1	6.11	9.66	Start Mixing Lead Slurry	
7:59	2.36	10.26	169.4	5.41	12.52		
8:00	5.03	11.88	187.7	5.33	15.19		
8:00	7.69	12.48	196.9	5.49	17.85		
8:01	10.36	12.36	187.7	5.19	20.52		
8:01	13.03	12.29	183.2	5.43	23.19		

Well		Field				Service Date		Customer		Job Number
Drake #2-27								CHEYENNE DRILLING		20202548
Time	CumVol	Density	Pressure	TotFlowrate	TotVol			Message		
24 hr clock	bbf	ppg	psi	lpm	bbf					
8:02	15.7	12.19	169.4	5.31	25.86	0	0			
8:02	18.36	12.32	164.8	5.27	28.52	0	0			
8:03	21.	12.33	160.3	5.31	31.16	0	0			
8:03	23.68	12.35	155.7	5.41	33.84	0	0			
8:04	26.39	12.33	146.5	5.51	36.55	0	0			
8:04	29.04	12.32	146.5	5.41	39.2	0	0			
8:05	31.71	12.26	141.9	5.23	41.87	0	0			
8:05	34.42	12.32	141.9	5.37	44.58	0	0			
8:06	37.16	12.26	132.8	5.29	47.31	0	0			
8:06	39.82	12.19	141.9	5.37	49.98	0	0			
8:07	42.46	12.12	137.4	5.35	52.61	0	0			
8:07	45.17	12.13	137.4	5.49	55.33	0	0			
8:08	47.87	12.15	137.4	5.21	58.03	0	0			
8:08	50.55	12.13	128.2	5.23	60.71	0	0			
8:09	53.25	12.02	119.	5.39	63.41	0	0			
8:09	53.25	12.02	119.	5.39	63.41	0	0	Reset Volume		
8:09	53.25	12.02	119.	5.39	63.41	0	0	[CumVol]=55.03 bbf		
8:09	53.25	12.02	119.	5.39	63.41	0	0	End Lead Slurry		
8:09	0.693	13.06	128.2	5.21	65.96	0	0			
8:09	0.693	13.06	128.2	5.21	65.96	0	0	Start Mixing Tail Slurry		
8:10	3.34	13.69	155.7	5.25	68.61	0	0			
8:10	6.	14.67	196.9	5.51	71.27	0	0			
8:11	8.73	14.84	192.3	5.31	74.	0	0			
8:11	11.44	14.63	192.3	5.39	76.71	0	0			
8:12	14.2	14.87	201.5	5.59	79.47	0	0			
8:12	16.88	14.96	206.	5.31	82.15	0	0			
8:13	19.62	14.93	206.	5.49	84.89	0	0			
8:13	22.42	14.8	196.9	5.21	87.69	0	0			
8:13	22.42	14.8	196.9	5.21	87.69	0	0	Start Flow Rate 1		
8:13	22.42	14.8	196.9	5.21	87.69	0	0	[TotFlowrate]=F[TotFlowrate 1]		
8:14	25.23	14.59	187.7	5.7	90.5	0	0			
8:14	28.11	14.5	178.6	5.7	93.38	0	0			
8:14	28.11	14.5	178.6	5.7	93.38	0	0	Shutdown		
8:15	28.11	14.5	178.6	5.7	93.38	0	0	Drop Top Plug		
8:15	28.11	14.5	178.6	5.7	93.38	0	0	Start Displacement		
8:15	28.11	14.5	178.6	5.7	93.38	0	0	Reset Volume		
8:15	0.	13.89	-4.58	0.	94.55	0	0			
8:15	28.11	14.5	178.6	5.7	93.38	0	0	[CumVol]=29.28 bbf		
8:15	0.	13.64	0.	0.	94.55	0	0			
8:16	0.	13.37	-4.58	0.	94.55	0	0			
8:16	0.	13.39	0.	0.	94.55	0	0			
8:17	0.	13.28	0.	0.	94.55	0	0			
8:17	0.	13.2	0.	0.	94.55	0	0			
8:18	0.099	13.12	0.	1.82	94.65	0	0			
8:18	1.8	12.5	187.7	5.7	96.35	0	0			
8:19	4.68	8.85	91.58	5.7	99.23	0	0			
8:19	7.55	8.49	68.68	5.7	102.1	0	0			
8:20	10.42	8.22	77.84	5.73	105.	0	0			
8:20	13.29	8.36	91.58	5.73	107.8	0	0			
8:21	16.16	8.36	119.	5.73	110.7	0	0			
8:21	16.16	8.36	119.	5.73	110.7	0	0	Returns at Surface		
8:21	19.02	8.34	146.5	5.73	113.6	0	0			
8:22	21.9	8.36	169.4	5.7	116.4	0	0			
8:22	24.78	8.37	196.9	5.73	119.3	0	0			

ORIGINAL

RECEIVED
AUG 31 2001
KCC WICHITA

Well		Field		Service Date		Customer		Job Number
Drake #2-27						CHEYENNE DRILLING		20010808
ORIGINAL								
Message								
Time	CumVol	Density	Pressure	TotFlowrate	TotVol			
24 hr clock	bbl	PPG	psi	bpm	bbl			
8:22	24.78	8.37	196.9	5.73	119.3	0	0	Lower Pump Rate
8:23	25.99	8.42	105.3	1.2	120.5	0	0	
8:23	26.59	8.42	109.9	1.2	121.1	0	0	
8:24	27.38	8.42	132.8	1.79	121.9	0	0	
8:24	28.27	8.41	146.5	1.79	122.8	0	0	
8:25	29.16	8.36	164.8	1.76	123.7	0	0	
8:25	30.05	8.36	174.	1.76	124.6	0	0	
8:26	30.94	8.36	169.4	1.79	125.5	0	0	
8:26	31.82	8.36	183.2	1.76	126.4	0	0	
8:27	32.71	8.35	183.2	1.76	127.3	0	0	
8:27	33.26	8.3	787.5	0.	127.8	0	0	
8:27	33.26	8.3	787.5	0.	127.8	0	0	Bump Top Plug
8:28	33.26	8.26	778.4	0.	127.8	0	0	
8:28	33.26	8.24	0.	0.	127.8	0	0	
8:28	33.26	8.24	0.	0.	127.8	0	0	End Job
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	84	0	10	0	
Treating Pressure Summary, psi				Breakdown Fluid				
Maximum	Final	Average	Bump Plug to	Breakdown	Type	Volume	Density	
200	180	100	750	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		
0 %	84 bbl	32 bbl	50 °F		<input type="checkbox"/> Washed Thru Perfs	To	0 ft	
Customer or Authorized Representative			Dowell Supervisor					
Lou			Jeffrey Dutton		<input type="checkbox"/> Circulation Lost		<input checked="" type="checkbox"/> Job Completed	

RECEIVED

AUG 31 2001

KCC WICHITA



JOB LOG

ORDER NO. 70006

TICKET #	TICKET DATE
112201	11/27/01
BDA / STATE	COUNTY
KS	OSAGE
PSL DEPARTMENT	
CUSTOMER REP / PHONE	
API / UWI #	
JOB PURPOSE CODE	
HES FACILITY (CLOSEST TO WELL SITE)	

ORIGINAL

REGION	NWA / COUNTRY
North America	
MBU ID / EMP #	EMPLOYEE NAME
LOCATION	COMPANY
155498	WINDHAWK ENERGY LLC
TICKET AMOUNT	WELL TYPE
WELL LOCATION	DEPARTMENT
LEASE / WELL #	SEC / TWP / RNS

HES EMP NAME/EMP # (EXPOSURE HOURS)	HRS	HES EMP NAME/EMP # (EXPOSURE HOURS)	HRS	HES EMP NAME/EMP # (EXPOSURE HOURS)	HRS	HES EMP NAME/EMP # (EXPOSURE HOURS)	HRS
J. WOOSTER 155498		S. HARRIS 155498					
J. BAKER 155498		R. KAPLAN 155498					

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESS (psi)		JOB DESCRIPTION/REMARKS
				T	C	Tbg	Csg	
	0800							JOB READY CALLED OUT
	1130							PUMP TRUCK ON LOCATION - HAVE PRE JOB SITE ASSESSMENT SPOT EQUIPMENT RIG LAYING DOWN DRILL PIPE D. P WYRD DOWN LAY DOWN R-H + M-H
	1415							START RUNNING 4 1/2 CSG + 1 1/2" EQUIPMENT CASING ON BOTTOM 29' 92"
	1600							HOOK UP 4 1/2" P/C + CIRCULATING TROD START CIRCULATING WITH RIG PUMP
	1635							PLUG R-H + M-H WITH 25 SKS CMT THROUGH CIRCULATION - HOOK UP TO PUMP TRUCK
	1700							<u>JOB PROCEEDURE</u>
	1702	4.0	10	✓		200		TEST PUMP & LINES
	1706	4.0	5	✓		250		PUMP 10 BBS MUD FLUSH
	1707	8.0	168	✓		200		PUMP 5 BBL FIRST WATER SPACER
	1708		28			10/320		MIX 315 SKS LAD CMT AT 11.3' WYRD
	1708					150		MIX 130 SKS TAIL CMT AT 15' WYRD
	1738							THROUGH MIXING CEMENT - SHUT DOWN CMT OUT PUMP & LINES
	1740							
	1743							START DISPLACING HAVE 42 BBS OUT HAVE CMT RETURN TO SURFACE
	1800			✓		500		MAX LIFT PRESSURE BEFORE LATCHING PLUG PLUG DOWN RELIEF FLANG STOP AND
						1200		
<p>RECEIVED</p> <p>AUG 31 2001</p> <p>KCC WICHITA</p>								
<p>(CIRCULATED 5 BBS TO SURFACE)</p> <p>THANK YOU FOR CALLING HALLIBURTON</p> <p>WOODY + CREW</p>								



JOB SUMMARY 70006

TICKET #	116231 ORIGINAL	TICKET DATE	
BDA / STATE	KS	COUNTY	GREENE
PSL DEPARTMENT	ZONAL ISOLATION		
CUSTOMER REP / PHONE	MARK RAPASKI		
API / UWI #			
JOB PURPOSE CODE	035		
HES FACILITY (CLOSEST TO WELL SITE)	LIBERAL KS		

REGION	North America	NWA / COUNTRY	Mid CONTINENT
MBU ID / EMP #	MCI 10104 105848	EMPLOYEE NAME	Jolly Woodrow
LOCATION	LIBERAL KS	COMPANY	BRADSHAW ENERGY LLC
TICKET AMOUNT	810 027.24	WELL TYPE	02
WELL LOCATION	TRIBUNE	DEPARTMENT	CEMENT
LEASE / WELL #	Drake # 2-27	SEC / TWP / RNG	27-205-40W

HES EMP NAME/EMP # (EXPOSURE HOURS)	HRS	HES EMP NAME/EMP # (EXPOSURE HOURS)	HRS	HES EMP NAME/EMP # (EXPOSURE HOURS)	HRS	HES EMP NAME/EMP # (EXPOSURE HOURS)	HRS
J. Woodrow 105848		G. Humphreys 106005					
J. Bremer 106036		J. Lopez 106034					
HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES
420621 0/0	200	52947-6611	200				
59217-78299	200						

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

DATE TIME	CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
2-25-01 0900		2-25-01	2-25-01	2-25-01

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY	MAKE
Float Collar 1 PV 4 1/2	1	H
Float Shoe		
Guide Shoes RRC 4 1/2	1	O
Centralizers 5 1/4	5	
Bottom Plug		W
Top Plug 5-01 4 1/2	1	
Head p/c 4 1/2	1	G
Packer		
Other		O

WELL DATA

	NEW/USED	WEIGHT	SIZE	FROM	TO	MAX ALLOW
Casing	U	105	4 1/2	KB	2972	
Liner						
Liner						
Tbg/D.P.						
Tbg/D.P.						SHOTS/FT.
Open Hole						
Perforations						
Perforations						
Perforations						

MATERIALS

Treat Fluid _____	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
Eric. Red. _____	Gal/Lb	In
Breaker _____	Gal/Lb	In
Blocking Agent _____	Gal/Lb	
Perfpac Balls _____	Qty	
Other _____		
Other _____		
Other _____		
Other _____		

HOURS ON LOCATION		OPERATING HOURS		DESCRIPTION OF JOB
DATE	HOURS	DATE	HOURS	
TOTAL		TOTAL		

ORDERED _____	HYDRAULIC HORSEPOWER Avail. _____	Used _____
TREATED _____	AVERAGE RATES IN BPM Disp. _____	Overall _____
FEET 44	CEMENT LEFT IN PIPE Reason _____	SHOT JOINT

CEMENT DATA

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	YIELD	LBS/GAL
	340	PR mid coal	E	1/8" Poly MAKE	3.02	11.2
	130	premium softcap B		2 1/2 TOTAL GEL. 58 CAL SEAL - 1/8" HANAD-302	1.16	15.0

Circulating _____ Displacement **RECEIVED** _____ Preflush: Gal-BBI 10 _____ Type Mid Well
 Breakdown _____ Maximum _____ Load & Bkdn: Gal-BBI _____ Pad: BBI-Gal _____
 Average _____ Frac Gradient **AUG 31 2001** _____ Treatment Gal-BBI _____ Disp. BBI Gal 46.8
 Shut In: Instant _____ 5 Min _____ 15 Min _____ Cement Slurr Gal-BBI 182.8 LC, 268 TC
 Total Volume Gal-BBI _____

Frac Ring #1 _____ Frac Ring #2 _____ Frac Ring #3 _____ Frac Ring #4 _____
THE INFORMATION STATED HEREIN IS CORRECT CUSTOMER'S REPRESENTATIVE SIGNATURE Mark Rapaski