

KANSAS CORPORATION COMMISSION

OIL & GAS CONSERVATION DIVISION

WELL COMPLETION FORM

WELL HISTORY - DESCRIPTION OF WELL & LEASE

ORIGINAL

Form ACO-1 September 1999 Form Must Be Typed

RECEIVED KANSAS CORPORATION COMMISSION

Operator: License # 5293
Name: Helmerich & Payne, Inc.
Address: 1579 E. 21st Street
City/State/Zip: Tulsa, OK 74114
Purchaser: CONSERVATION DIVISION WICHITA, KS
Operator Contact Person: Sharon LaValley
Phone: (918) 742-5531
Contractor: Name: Cheyenne Drilling
License: 5382
Wellsite Geologist: Wes Hansen
Designate Type of Completion:
[X] New Well [] Re-Entry [] Workover
[X] Oil [] SWD [] SIOW [] Temp. Abd.
[] Gas [] ENHR [] SIGW
[] Dry [] Other (Core, WSW, Expl., Cathodic, etc)
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.
01/29/01 02/08/01 02/23/01
Spud Date or Recompletion Date Date Reached TD Completion Date or Recompletion Date

API No. 15 - 081-21363 -00-00
County: Haskell
SE NE NW Sec. 10 Twp. 27S. R. 34 East West
1200 feet from S (N) (circle one) Line of Section
2400 feet from E (W) (circle one) Line of Section
Footages Calculated from Nearest Outside Section Corner:
(circle one) NE SE NW SW
Lease Name: Kuhn Well #: 7-10
Field Name: Pleasant Prairie
Producing Formation: Chester
Elevation: Ground: 2962' Kelly Bushing: 2973'
Total Depth: 5330' Plug Back Total Depth: 5280'
Amount of Surface Pipe Set and Cemented at 1871 Feet
Multiple Stage Cementing Collar Used? [X] Yes [] No
If yes, show depth set 3105 Feet
If Alternate II completion, cement circulated from
feet depth to w/ sx cmt.

Drilling Fluid Management Plan Act I KGR 1/11/08
(Data must be collected from the reserve pit)
Chloride content Est 1600 ppm Fluid volume 2000 bbls
Dewatering method used Evaporation
Location of fluid disposal if hauled offsite:
Operator Name: NA
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 completed and correct to the best of my knowledge.

Signature: Sharon LaValley
Title: Engineer Tech Date: 5/24/01
Subscribed and sworn to before me this 24th day of May
2001.
Notary Public: Lori Tye
Date Commission Expires: 6/13/04



KCC Office Use Only
Letter of Confidentiality Attached
If Denied, Yes [] Date:
Wireline Log Received
Geologist Report Received
UIC Distribution

Operator Name: Helmerich & Payne, Inc. Lease Name: Kuhn Well #: 7-10
 Sec. 10 Twp: 27 S. R. 34 East West County: Haskell

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 Takes Yes No
 Electric Log Run Yes No
 (Submit Copy)

List All E. Logs Run:

DIL/CNL/CDL/MEL/BHCS

<input type="checkbox"/> Log Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Name	Top Datum
Base of Stone Corral	1886 1087
Wellington	2234 739
Heeber Shale	3910 -937
Lansing	3950 -977
Kansas City	4044 -1431
Base of Kansas City	4535 -1562
Atoka	4910 -1937
Morrow	4970 -1997
Chester	5042 -2069
St. Louis	5235 2973

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#	1871'	35/65 Poz C Lite	560	6% Bent + .2% CC + 1/4# Flocele
					Class C	150	2% CC + 1/4# Flocele
Production	7 7/8"	5 1/2"	14#	5332'	50/50 Poz Prem	300 1 st stg	1/4# flocele + .6% Halad + .10% salt + .25# D-Air 3000
					50/50 Poz Prem	520 2 nd stg	1/4# flocele + .6% Halad + .10% salt + .25# D-Air 3000 + 4% Cal-Seal

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				

Shot Per Foot	PERFORATIONS RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
4	5151-5169 - Chester	Breakdown - 600 gals N-Ver-Sperse + 2000 gals 4% KCl Wtr. Frac - 32000 gal 25# Delta frac gel sand 56000 lbs of 16/30 Ottawa	

TUBING RECORD	Size	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
	2 7/8"	5111		

Date of First, Resumed Production, SWD or Enhr.	Producing Method
02/23/01	<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 Bbls	Gas Mcf	Water Bbls	Gas-Oil Ratio	Gravity
	62	48	4	774	

Disposition of Gas Vented Sold Used on Lease (If Vented, Submit ACO-18) METHOD OF COMPLETION Open Hole Perforated Dually Comp. Commingled 5151-5169 Other (Specify) _____

Customer				Job Number				
CHEYENNE DRILLING				20199248				
Well KUHN. 7-10		Location (legal)		Dowell Location Ulysses, KS		Job Start 1/31/01		
Field Hugoton		Formation Name/Type Surface		Deviation 0		Bit Size 12.3 in	Well MD 1,875 ft	
County Haskell		State/Province Kansas		BHP 0 psi	BHST 85 °F	BHCT 80 °F	Pore Press. Gradient 0 psi/ft	
Rig Name Cheyenne Drilling 5	Drilled For Oil & Gas	Service Via Land		Casing/Liner				
Offshore Zone None	Well Class New	Well Type Development		Depth, ft 0	Size, in 0	Weight, lb/ft 0	Grade 0	
Drilling Fluid Type Spud Mud	Max. Density 9.61 lb/gal	Plastic Viscosity 16 cp		Tubing/Drill Pipe				
Service Line Cementing	Job Type Cem Surface Casing		Depth, ft 0	Size, in 0	Weight, lb/ft 0	Grade 0	Thread 0	
Max. Allowed Tubing Pressure 500 psi	Max. Allowed Ann. Pressure 0 psi	Wellhead Connection Single cement head		Perforations/Open Hole				
Service Instructions Safely cement 8 5/8 surface casing as per customer's request				Top, ft 0	Bottom, ft 0	spf 0	No. of Shots 0	Total Interval 0 ft
				Diameter 0	in 0	in 0	in 0	in 0
				Treat Down Casing	Displacement 116.5 bbl	Packer Type None	Packer Depth 0 ft	Packer Depth 0 ft
				Tubing Vol. 0 bbl	Casing Vol. 119.5 bbl	Annular Vol. 136.5 bbl	Open Hole Vol. 0 bbl	Open Hole Vol. 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: 770 psi		Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input checked="" type="checkbox"/>		Shoe Type: Other	Squeeze Type	
No. Centralizers: 5	Top Plugs: 1	Bottom Plugs: 0		Shoe Depth: 1900 ft	Tool Type:		Tool Depth: 0 ft	
Cement Head Type: Single		Job Scheduled For: 1/30/01 17:00		Arrived on Location: 1/30/01 18:00	Leave Location: 1/31/01 1:30		Stage Tool Type: 0 ft	
Stage Tool Depth: 0 ft	Tail Pipe Size: 0 in	Collar Type: Auto-Fill	Tail Pipe Depth: 0 ft	Collar Depth: ft	Sqz Total Vol: 0 bbl		Open Hole Vol. 0 bbl	
Time	CumVol	Density	Pressure (1)	Total Flowrate				Message
24 hr check	bbl	ppg	psi	gpm				
23:00	0	0	0	0	0	0	0	START ACQUISITION RECEIVED
23:00	0	7.91	0	0	0	0	0	KANSAS CORPORATION COMMISSION
23:01	0	7.92	0	0	0	0	0	
23:01	0	7.91	0	0	0	0	0	
23:02	0.424	7.66	1190	0.336	0	0	0	MAY 25 2001
23:02	0.424	7.66	27.47	0	0	0	0	
23:03	0.424	7.9	18.32	0	0	0	0	CONSERVATION DIVISION
23:03	0.424	7.9	18.32	0	0	0	0	Start Pumping Water WICHITA, KS
23:03	0.424	7.9	18.32	0	0	0	0	[CumVol]= 4238 bbl
23:03	0.091	8	27.47	1.09	0	0	0	Reset Volume
23:04	1.56	8.41	119	3.22	0	0	0	
23:05	2.39	8.27	100.7	0	0	0	0	
23:05	2.45	8.33	36.63	0.755	0	0	0	
23:06	3.04	8.21	27.47	0	0	0	0	
23:06	3.04	8.2	27.47	0	0	0	0	
23:07	3.04	8.3	27.47	0	0	0	0	
23:07	3.04	8.13	27.47	0	0	0	0	
23:08	3.04	8.12	9.16	0	0	0	0	
23:08	3.04	8.12	18.32	0	0	0	0	
23:09	3.04	8.12	18.32	0	0	0	0	
23:09	3.11	8.26	18.32	0.755	0	0	0	

APC 15-081-21363-00-00

Well		Field				Service Date	Customer	Job Number
KUHN #7-10		Hugoton					CHEYENNE DRILLING	20199240
Time	CumVol	Density	Pressure UI	TotFlowrate				Message
24 hr clock	bbbl	ppg	psf	gpm				
23:10	3.71	8.1	32.05	0.	0	0	0	
23:10	3.71	8.2	4.58	0.	0	0	0	
23:11	3.71	8.36	18.32	0.	0	0	0	
23:11	3.71	8.3	0.	0.	0	0	0	
23:12	3.71	8.39	18.32	0.	0	0	0	
23:12	3.71	8.32	0.	0.	0	0	0	
23:13	3.71	8.26	0.	0.	0	0	0	
23:13	3.71	8.21	22.89	0.	0	0	0	RECEIVED
23:14	3.71	8.15	0.	0.	0	0	0	KANSAS CORPORATION COMMISSION
23:14	3.71	8.15	27.47	0.084	0	0	0	
23:15	4.93	8.09	100.7	3.22	0	0	0	MAY 25 2001
23:15	4.99	8.06	9.16	0.	0	0	0	
23:16	4.99	8.03	4.58	0.	0	0	0	
23:16	4.99	8.	0.	0.	0	0	0	CONSERVATION DIVISION
23:17	5.74	8.05	123.6	3.16	0	0	0	WICHITA, KS
23:17	7.47	8.39	146.5	3.5	0	0	0	
23:18	9.54	8.39	183.2	4.78	0	0	0	
23:18	12.01	8.34	187.7	4.98	0	0	0	
23:19	14.5	8.37	174.	4.98	0	0	0	
23:19	16.99	11.3	183.2	4.95	0	0	0	
23:20	19.49	14.08	224.4	4.98	0	0	0	
23:20	21.99	10.92	201.5	4.98	0	0	0	
23:21	24.49	10.92	164.8	4.98	0	0	0	
23:21	24.49	10.92	164.8	4.98	0	0	0	Start Cement Slurry
23:21	24.49	10.92	164.8	4.98	0	0	0	Reset Volume
23:21	24.49	10.92	164.8	4.98	0	0	0	[CumVol]=25.32 bbl
23:21	1.25	11.51	187.7	4.98	0	0	0	
23:22	4.	11.46	192.3	5.59	0	0	0	
23:22	6.8	12.05	206.	5.56	0	0	0	
23:23	9.6	14.26	215.2	5.56	0	0	0	
23:23	9.6	14.26	215.2	5.56	0	0	0	
23:23	12.4	13.27	201.5	5.59	0	0	0	Scales 11.8
23:24	15.2	13.	201.5	5.59	0	0	0	
23:24	18.01	12.48	174.	5.59	0	0	0	
23:25	20.82	12.05	169.4	5.59	0	0	0	
23:25	23.63	12.56	178.6	5.59	0	0	0	
23:26	26.43	12.67	174.	5.59	0	0	0	
23:26	29.24	12.26	174.	5.56	0	0	0	
23:27	32.05	12.39	169.4	5.59	0	0	0	
23:27	34.23	12.63	100.7	3.83	0	0	0	
23:28	36.16	12.64	100.7	3.86	0	0	0	
23:28	38.83	12.39	178.6	5.59	0	0	0	
23:29	41.63	12.19	160.3	5.59	0	0	0	
23:29	41.63	12.19	160.3	5.59	0	0	0	scales 12.4
23:29	44.44	13.03	183.2	5.59	0	0	0	
23:30	47.24	12.19	155.7	5.59	0	0	0	
23:30	50.05	12.18	164.8	5.59	0	0	0	
23:31	52.85	11.94	155.7	5.56	0	0	0	
23:31	55.66	12.93	169.4	5.59	0	0	0	
23:32	58.47	12.55	169.4	5.59	0	0	0	
23:32	61.27	12.05	155.7	5.56	0	0	0	
23:33	64.08	11.84	146.5	5.59	0	0	0	
23:33	64.08	11.84	146.5	5.59	0	0	0	switch bottles
23:33	66.88	12.39	178.6	5.59	0	0	0	

APR 15 08 21568 60 00

Well		Field				Service Date		Customer		Job Number
KUHN. #7-10		Hugoton						CHEYENNE DRILLING		20100248
Time	CumVol	Density	Pressure UT	TempRate				Message		
24hr clock	bbf	ppg	psi	ppm						
23:34	69.69	11.97	160.3	5.59	0	0	0			
23:34	72.49	12.5	169.4	5.56	0	0	0			
23:35	75.29	12.24	178.6	5.56	0	0	0			
23:35	77.35	13.27	109.9	3.83	0	0	0			
23:35	77.35	13.27	109.9	3.83	0	0	0	scales 12.5		
23:36	79.48	11.75	164.8	5.59	0	0	0			
23:36	82.28	12.27	169.4	5.59	0	0	0			
23:37	85.07	12.78	178.6	5.56	0	0	0			
23:37	87.87	12.39	169.4	5.56	0	0	0	RECEIVED KANSAS CORPORATION COMMISSION		
23:38	90.68	12.55	174.	5.59	0	0	0			
23:38	93.48	12.33	169.4	5.59	0	0	0			
23:39	96.29	12.13	155.7	5.59	0	0	0	MAY 25 2001		
23:39	99.09	11.5	146.5	5.59	0	0	0			
23:40	101.9	13.33	178.6	5.56	0	0	0	CONSERVATION DIVISION WICHITA, KS		
23:40	104.7	11.94	155.7	5.59	0	0	0			
23:41	107.5	12.79	169.4	5.59	0	0	0			
23:41	110.3	12.13	160.3	5.59	0	0	0			
23:42	113.1	11.66	146.5	5.59	0	0	0			
23:42	115.9	11.92	155.7	5.59	0	0	0			
23:43	118.7	13.	174.	5.59	0	0	0			
23:43	121.5	12.48	160.3	5.56	0	0	0			
23:44	124.3	12.26	160.3	5.56	0	0	0			
23:44	127.1	12.44	164.8	5.59	0	0	0			
23:45	129.9	12.03	151.1	5.56	0	0	0			
23:45	132.7	12.36	155.7	5.56	0	0	0			
23:46	135.5	12.91	174.	5.56	0	0	0			
23:46	138.3	11.57	141.9	5.56	0	0	0			
23:47	141.1	12.4	155.7	5.56	0	0	0			
23:47	141.1	12.4	155.7	5.56	0	0	0	switch bottles		
23:47	143.9	12.15	155.7	5.59	0	0	0			
23:48	146.7	11.57	141.9	5.56	0	0	0			
23:48	149.5	12.1	151.1	5.59	0	0	0			
23:49	152.3	13.32	187.7	5.56	0	0	0			
23:49	155.1	12.37	174.	5.56	0	0	0			
23:50	157.9	12.06	151.1	5.56	0	0	0			
23:50	160.7	12.55	174.	5.56	0	0	0			
23:51	163.5	12.48	169.4	5.56	0	0	0			
23:51	166.3	11.81	155.7	5.56	0	0	0			
23:51	166.3	11.81	155.7	5.56	0	0	0	scales 12.7		
23:52	169.1	12.28	155.7	5.56	0	0	0			
23:52	171.9	12.03	164.8	5.59	0	0	0			
23:53	174.7	12.91	174.	5.59	0	0	0			
23:53	177.2	11.94	151.1	5.56	0	0	0			
23:54	180.	12.25	164.8	5.59	0	0	0			
23:54	182.8	12.38	160.3	5.56	0	0	0			
23:55	185.6	12.55	164.8	5.56	0	0	0			
23:55	188.4	12.36	169.4	5.59	0	0	0			
23:56	191.2	12.14	155.7	5.59	0	0	0			
23:56	194.	12.32	160.3	5.56	0	0	0			
23:57	196.8	12.77	174.	5.56	0	0	0			
23:57	199.6	11.43	151.1	5.59	0	0	0			
23:57	199.6	11.43	151.1	5.59	0	0	0	tail		
23:58	201.5	14.52	119.	3.83	0	0	0			
23:58	203.5	15.35	164.8	3.86	0	0	0			

APC 15-081-21863-00-00

Well		Field				Service Data		Customer		Job Number
KUHN #7-10		Hugoton						CHEYENNE DRILLING		20190248
Time	CumVol	Density	Pressure UI	TotFlowrate				Message		
24hr clock	bbbl	PPG	PSI	gpm						
23:59	205.4	14.41	151.1	3.83	0	0	0			
23:59	207.3	14.15	128.2	3.83	0	0	0			
0:00	209.2	15.01	174.	3.83	0	0	0			
0:00	211.2	14.63	132.8	3.86	0	0	0			
0:01	213.1	15.22	155.7	3.83	0	0	0			
0:01	215.	14.51	141.9	3.83	0	0	0			
0:01	215.	14.51	141.9	3.83	0	0	0	scales 14.5		
0:02	217.	14.83	137.4	3.83	0	0	0			
0:02	218.9	15.03	137.4	3.83	0	0	0			
0:03	220.8	14.86	137.4	3.83	0	0	0			
0:03	222.7	14.63	132.8	3.8	0	0	0			
0:04	224.6	14.89	128.2	3.83	0	0	0			
0:04	226.6	14.99	128.2	3.83	0	0	0			
0:05	228.5	14.87	132.8	3.83	0	0	0			
0:05	230.4	14.86	132.8	3.8	0	0	0			
0:06	232.3	14.93	128.2	3.83	0	0	0			
0:06	234.3	14.38	123.6	3.83	0	0	0			
0:07	234.7	13.89	36.63	0.	0	0	0			
0:07	234.7	13.86	18.32	0.	0	0	0			
0:08	234.7	13.83	18.32	0.	0	0	0			
0:08	235.4	13.85	36.63	2.82	0	0	0			
0:09	237.	13.84	22.89	3.3	0	0	0			
0:09	238.8	13.81	36.63	3.61	0	0	0			
0:10	240.6	13.77	41.21	3.61	0	0	0			
0:10	242.6	13.77	54.95	4.53	0	0	0			
0:11	244.9	13.77	73.26	4.53	0	0	0			
0:11	247.2	12.41	183.2	4.5	0	0	0			
0:12	247.2	12.41	183.2	4.5	0	0	0	[CumVol]=248.3 bbl		
0:12	247.2	12.41	183.2	4.5	0	0	0	Reset Volume		
0:12	247.2	12.41	183.2	4.5	0	0	0	on disp		
0:12	247.2	12.41	183.2	4.5	0	0	0	start cmt circ		
0:12	0.753	9.97	109.9	4.5	0	0	0			
0:12	3.02	9.	87.	4.53	0	0	0			
0:13	5.28	8.59	91.58	4.53	0	0	0			
0:13	7.54	8.52	82.42	4.5	0	0	0			
0:14	9.8	8.46	96.15	4.5	0	0	0			
0:14	12.06	8.33	105.3	4.5	0	0	0			
0:15	14.32	8.36	128.2	4.47	0	0	0			
0:15	16.58	8.41	123.6	4.5	0	0	0			
0:16	18.84	8.42	123.6	4.47	0	0	0			
0:16	21.1	8.36	146.5	4.5	0	0	0			
0:17	23.36	8.39	137.4	4.5	0	0	0			
0:17	25.62	8.42	146.5	4.5	0	0	0			
0:18	27.88	8.33	178.6	4.5	0	0	0			
0:18	30.13	8.22	169.4	4.5	0	0	0			
0:19	32.38	8.09	187.7	4.47	0	0	0			
0:19	34.64	8.36	210.6	4.5	0	0	0			
0:20	36.89	8.36	196.9	4.5	0	0	0			
0:20	39.14	8.36	201.5	4.47	0	0	0			
0:21	41.39	8.36	233.5	4.47	0	0	0			
0:21	43.64	8.34	228.9	4.5	0	0	0			
0:22	45.88	8.35	242.7	4.47	0	0	0			
0:22	48.13	8.33	251.8	4.47	0	0	0			
0:23	50.37	8.33	270.1	4.47	0	0	0			

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APC 15-081-213123-00-00

Well		Field			Service Date	Customer		Job Number
KUHN #7-10		Hugoton				CHEYENNE DRILLING		20199248
Time	CurVal	Density	Pressure G1	TestFlowrate				Message
24 hr check	bbl	ppg	psi	bpm				
0:23	52.6	8.33	274.7	4.47	0	0	0	
0:24	54.84	8.33	279.3	4.45	0	0	0	
0:24	57.08	8.33	274.7	4.45	0	0	0	
0:25	59.32	8.34	306.8	4.45	0	0	0	
0:25	61.56	8.33	315.9	4.47	0	0	0	
0:26	63.8	8.34	320.5	4.47	0	0	0	
0:26	66.03	8.33	315.9	4.45	0	0	0	
0:27	68.27	8.33	334.2	4.47	0	0	0	
0:27	70.49	8.32	348	4.45	0	0	0	
0:28	72.72	0.053	357.1	4.45	0	0	0	
0:28	74.95	0.046	370.9	4.45	0	0	0	
0:29	77.18	0.038	366.3	4.42	0	0	0	
0:29	79.4	0.031	380	4.42	0	0	0	
0:30	81.63	0.031	407.5	4.45	0	0	0	
0:30	83.85	0.031	402.9	4.42	0	0	0	
0:31	86.07	0.031	435	4.42	0	0	0	
0:31	88.29	0.031	439.6	4.42	0	0	0	
0:32	90.51	0.038	457.9	4.42	0	0	0	
0:32	92.73	0.046	480.8	4.45	0	0	0	
0:33	94.95	0.038	508.2	4.42	0	0	0	
0:33	97.16	0.038	499.1	4.42	0	0	0	
0:34	99.37	0.046	526.6	4.39	0	0	0	
0:34	100.8	0.046	485.3	2.43	0	0	0	
0:35	102	0.038	499.1	2.4	0	0	0	
0:35	103.2	0.038	526.6	2.4	0	0	0	
0:36	103.7	0.046	924.9	0	0	0	0	
0:36	103.7	0.038	915.8	0	0	0	0	
0:37	103.7	0.046	-4.58	0	0	0	0	
0:37	103.7	0.038	0	0	0	0	0	
0:38	103.7	0.046	0	0	0	0	0	
0:38	103.7	0.038	0	0	0	0	0	
0:39	103.7	0.038	0	0	0	0	0	Bump PLug
0:39	103.7	0.038	0	0	0	0	0	Float Holding
0:39	103.7	0.046	0	0	0	0	0	
0:39	103.7	0.046	0	0	0	0	0	Plug Down 0030
0:39	103.7	0.046	0	0	0	0	0	Circ 100 bbls of cmt
0:39	103.7	0.046	0	0	0	0	0	End job

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Post Job Summary

Average Pump Rates, bpm				Volume of Fluid Injected, bbl			
Slurry	N2	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2
3.5	0	0	5.5	248	0	10	0
Treating Pressure Summary, psi				Breakdown Fluid			
Maximum	Final	Average	Bump Plug to	Breakdown	Type	Volume	Density
1000	1000	200	1000	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 100 bbl <input type="checkbox"/> Washed Thru Perfs To 0 ft		
0 %		245 bbl	114 bbl	55 °F			
Customer or Authorized Representative			Dowell Supervisor		<input type="checkbox"/> CirculationLost <input checked="" type="checkbox"/> Job Completed		
Phil Lloyd			Shubhanan Dakshindas				

JOB SUMMARY

REGIONAL NORTH AMERICA LAND		NWA / COUNTRY MID CONT USA		SALES ORDER NUMBER 1146518		TICKET DATE 2-15-2001	
MBU ID / EMPL # MC LIO594 106297		H.E.S. EMPLOYEE NAME NEIFERT / HEDRICK		BDA / STATE LIBERAL KS		COUNTY Haskell	
LOCATION Liberal		COMPANY Helmerich & Payne		PSL DEPARTMENT P.E. / Stimulation		STATE Kansas	
TICKET AMOUNT N/A		WELL TYPE 01 OIL/ GAS		CUSTOMER REP / PHONE Brad Kiene 272-1661		API/UWI # 15-081-21363-0000	
WELL LOCATION GARDEN CITY KS.		DEPARTMENT FRAC DEPT 10016 /10036		SAP BOMB NUMBER		Description	
LEASE NAME Kuhn		Well No. #7-10		SEC / TWP / RING 10-27s-34w			

H.E.S. EMP NAME / EMP # (EXPOSURE HOURS)	HRS	H.E.S. EMP NAME / EMP # (EXPOSURE HOURS)	HRS	H.E.S. EMP NAME / EMP # (EXPOSURE HOURS)	HRS	H.E.S. EMP NAME / EMP # (EXPOSURE HOURS)	HRS
KINSINGER 106259	5.0	WEIAND 106087	5.0	WILTSHIRE 195811	5.0	A. THOMAS 222754	5.0
HEDRICK 106013	5.0	NEIFERT 106297	5.0	GRIMSLEY 120188	5.0	WYMER	5.0
K. THOMAS 106123	5.0	GONZALES 195961	5.0	FREDRICK 106114	5.0	EBERSOLE 106261	5.0
CORNELSON 189366	5.0	SIGARS 106058	5.0	MERKLIN 106030	5.0		

H.E.S. UNIT #S / (R / T MILES)	R / T MILES	H.E.S. UNIT #S / (R / T MILES)	R / T MILES	H.E.S. UNIT #S / (R / T MILES)	R / T MILES	H.E.S. UNIT #S / (R / T MILES)	R / T MILES
420214	120	420227-78399	120	53669-78318	120	53335	120
420993	120	422361	120	53554-6660	120	421928	120
51202	120	54024-8134	120	53911-78319	120		
51809	120	488007	120	54091	120		

Form. Name Morrow 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
	2/15/01	2/15/01	2/15/01	2/15/01
Time	530	1300	1430	1630

Tools and Accessories

Type and Size	Qty	Make
Float Collar		
Float Shoe		
Centralizers		
Top Plug		
Packer		
DV Tool		
Insert Float		
Guide Shoe		
Other		

Well Data

	New/Used	Weight	Size	Grade	From	To	Max. Allow
Casing	New	14.0	5 1/2			5350±	2,500
Liner							
Liner							
Tubing							
Drill Pipe							
Open Hole							
Perforations					5,151	5,169	Shots/Ft.
Perforations							
Perforations							

Materials

Mud Type	Delta 140	Density		Lb/Gal	
Disp. Fluid	25#	Density		Lb/Gal	
Prop. Type	Ottawa	Size	16/30	Lb	571,000
SAND WEDGE		Size	100	Lb	
Acid Type	ER-25	Gal.	23	%	
Acid Type	Losurf-300	Gal.	36	%	
Surfactant		Gal.		In	
NE Agent	SP Bkr	Gal.		In	
CROSS LINKE	BC 140	Gal/Lb	40	In	
Gelling Agent	LGC-4	Gal/Lb	156	In	
Fric. Red.	WAC 9	Gal/Lb	400	In	
Breaker	OPTIFLO HTI	Gal/Lb	20 LBS	In	
Blocking Agent		Gal/Lb			
Perpac Balls		Qty.			
Other	N-ZYME 3 / 2QTS				
Other	BE 3S 6 LBS				
Other	IPA 50 GAL				
Other					
Other					

Hours On Location

Date	Hours
2/15	
Total	

Operating Hours

Date	Hours
2/15	
Total	

Description of Job

*** SEE JOB LOG ***

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Hydraulic Horsepower Avail. _____

Average Rates in BPM _____

Disp. _____

Cement Left in Pipe _____

Reason _____

Ordered _____

Treating _____

Feet _____

Cement Data

Stage	Sacks	Cement	Bulk/Sks	Additives	W/Rq.	Yield	Lbs/Gal

Summary

Circulating Breakdown	Displacement Maximum	Preflush: Gal - BBI	Type: Pad:Bbl -Gal
Lost Returns-YES	Lost Returns-NO	Load & Bkdn: Gal - BBI	10000
Cmt Rtn#Bbl	Actual TOC	Excess /ReturnGal BBI	5200
Average	Frac. Gradient	Calc. TOC:	Actual Disp.
Shut In: Instant	5 Min. 1,315	Treatment: Gal - BBI	Disp:Bbl-Gal
	15 Min. 1,147	Cement Slurry: Gal - BBI	BBL
		Total Volume Gal - BBI	

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

THE INFORMATION STATED HEREIN IS CORRECT

CUSTOMER REPRESENTATIVE _____

SIGNATURE _____

APL 15-081-21363-0000

Time	Description
15:15:48	Prime Pumps Thursday February 15, 2001
15:26:58	Test Lines
15:42:22	Safety Meeting
15:44:24	Start Job
15:45:22	Stage Change Stage 1 - 10000 GAL DELTA PAD
15:57:44	Stage Change Stage 2 - 2000 GAL DELTA W/2PPG 16/30 WHITE SAND
15:59:47	Stage Change Stage 3 - 2500 GAL DELTA W/4PPG 16/30 WHITE SAND
16:02:35	Stage Change Stage 4 - 3000 GAL DELTA W/6PPG 16/30 WHITE SAND
16:03:04	BH Proppant Conc 1.05 lb/gal
16:03:49	BH Proppant Conc 2.06 lb/gal
16:04:53	BH Proppant Conc 3.13 lb/gal
16:06:00	BH Proppant Conc 4.14 lb/gal
16:06:08	Stage Change Stage 5 - 3000 GAL DELTA W/8PPG 16/30 WHITE SAND
16:07:41	BH Proppant Conc 5.40 lb/gal
16:09:18	Stage Change Stage 6 - 5279 GAL LINEAR FLUSH
16:11:04	BH Proppant Conc 6.52 lb/gal
16:11:30	BH Proppant Conc 7.58 lb/gal
16:14:27	BH Proppant Conc 6.54 lb/gal
16:14:38	BH Proppant Conc 4.40 lb/gal
16:24:47	End Job
16:25:37	ISIP 1315 PSI
16:25:53	5 MIN 1153 PSI
16:26:08	TOTAL LOAD 603 BBL
16:26:25	TOTAL LOAD 570 SKS
16:26:38	MAX PSI 1600 PSI
16:26:52	AVG PSI 1100 PSI
16:27:08	MAX RATE 26 BPM
16:27:42	AVG RATE 25 BPM

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