

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

API NO. 15- 093-21643 ~~0000~~ **ORIGINAL**

County Kearny

 - NW - SW - SE Sec. 4 Twp. 25S Rge. 35 E

1250 Feet from (S)N (circle one) Line of Section

2616 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 Shields Well # 1-2

Field Name Hugoton

Producing Formation Chase

Elevation: Ground 2989 KB 2995

Total Depth 2755 PBDT 2704

Amount of Surface Pipe Set and Cemented at 536 Feet

Multiple Stage Cementing Collar Used? Yes X No

If yes, show depth set Feet

If Alternate II completion, cement circulated from 2750

feet depth to surface w/ 525 sx cmt.

Drilling Fluid Management Plan AH-2 9-10-99 v.c.
(Data must be collected from the Reserve Pt)

Chloride content ppm Fluid volume 880 bbls

Dewatering method used Evaporation

Location of fluid disposal if hauled offsite:

Operator Name Helmerich & Payne, Inc.

Lease Name Waechter A-1A License No. 5293

 Quarter Sec. 3 Twp. 26 S Rng. 37 E/W

County Kearny Docket No.

Operator: License # 5293

Name: Helmerich & Payne, Inc.

Address 1579 E. 21st Street

City/State/Zip Tulsa, OK 74114

Purchaser:

Operator Contact Person: David Cook/Mike LaMascus

Phone (918) 742-5531

Contractor: Name: Cheyenne Drilling

License: 5382

Wellsite Geologist:

Designate Type of Completion. 09-02-99

X New Well Re-Entry Workover

 Oil SWD SLOW Temp. Abd.

X 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.

05/12/99 05/15/99 8-21-99

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 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 David L Cook

Title N. Region Prod Supt Date 8/25/99

Subscribed and sworn to before me this 25th day of August, 1999.

Notary Public Jenna Payne-Hardley

Date Commission Expires August 17, 2002

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

Operator Name Helmerich & Payne, Inc. Lease Name Shields Well # 1-2

East

County Kearny

Sec. 4 Twp. 25S Rge. 35

West

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken Yes No
(Attach Additional Sheets.)

Log Formation (Top), Depth and Datums Sample

Samples Sent to Geological Survey Yes No

Name Top Datum

Cores Taken Yes No

Electric Log Run Yes No
(Submit Copy.)

Herrington 2430
Krider 2450
Winfield 2492
U.Ft. Riley 2540

List All E.Logs Run:
GR/Neutron/CCL

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		8 5/8	24	536	35/65 Poz C Class C	150 100	6% D20 +2% S1 2% S1
Production		5 1/2	14	2750	35/65 Poz C 50/50 Poz C	400 125	6% D20 Bentonite + 1/4# SK D29 Flake 2% D20 Bentonite 10% D-44 Salt 1/4# SK D-29 Flake

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 <input checked="" type="checkbox"/> Bridge Plugs Set/Type		Acid, Fracture, Shot, Cement Squeeze Record		
	Specify Footage of Each Interval Perforated		(Amount and Kind of Material Used)	Depth	
4 jspf	Herrington 2430-2442		58000# 10/30 Sd + 30000 gals 25# linear gel 70Q N2 Foam.		
4 jspf	Krider 2450-2468				
4 jspf	Winfield 2492-2504		69000# 10/30 Sd + 33000 gals 25# linear gel 70Q N2 foam		
1 jspf	U. Ft. Riley 2540-2552				
TUBING RECORD			Liner Run		
	Size	Set At	Packer At		
	2 3/8	2580		<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Date of First, Resumed Production, SWD or Inj.			Producing Method		
7-2-99			<input checked="" 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
		179			

Disposition of Gas: METHOD OF COMPLETION

Vented Sold Used on Lease
(If vented, submit ACO-18.)

Open Hole Perf. Dually Comp. Commingled 2430-2552
Other (Specify) _____

Production Interval



Cementing Service Report

Dowell		Customer: HELMERICH & PAYNE INC			Job Number: 20105975						
Well: Shields 1-2		Location (logs): SEC 4-25S-35W		Dowell Location: Ulysses, KS		Job Start: 5/14/99					
Field: Hugoton		Formation Name/Type: Chase		Deviation: 0	BIT Size: 7.88 in	Well MD: 2,755 ft					
County: Keamy		State/Province: KS		BHP: 0 psi	BHST: 95 °F	BHCT: 85 °F					
Rig Name: CHEYENNE 8		Drilled For: Gas	Service Via: Land		Pure Press. Gradient: 0 psi/ft						
Offshore Zone:		Well Class: New	Well Type: Development		Casing/Liner						
Drilling Fluid Type: Bentonite		Max. Density: 9.2 lb/gal	Plastic Viscosity: 38 cp		Depth, R: 2751	Size, in: 5.5	Weight, lb/R: 14				
Service Line: Cementing		Job Type: Cem Prod Casing		Grade: KSS	Thread: 8RD						
Max. Allowed Tubing Pressure: 2000 psi		Max. Allowed Ann. Pressure: 0 psi	Wellhead Connection: 5 1/2 CEMENT HE		Depth, R: 0	Size, in: 0	Weight, lb/R: 0				
Service Instructions: Safely deliver & perform Longstring Cement job with materials & equipment listed on the Service Receipt. Per clients instructions. 35 miles on equipment & hauling.				Perforations/Open Hole							
				Top, R: 0	Bottom, R: 0	spf: 0	No. of Shots: 0	Total Interval: 0 ft			
				Diameter: 0	In: 0	Diameter: 0	In: 0	Diameter: 0	In: 0		
				Treat Down Casing: 0	Displacement: 66.2 bbl	Packer Type: None	Packer Depth: 0 ft				
				Tubing Vol.: 0 bbl	Casing Vol.: 67.1 bbl	Annular Vol.: 63.6 bbl	Open Hole Vol.: 0 bbl				
Casing/Tubing Secured: <input checked="" type="checkbox"/>		1 Hole Volume Checked prior to Cementing: <input type="checkbox"/>		Casing Tools		Squeeze Job					
LHR Pressure: 1621 psi		Pipe Rotated: <input type="checkbox"/>		Pipe Backrotated: <input type="checkbox"/>		Shoe Type: Guide	Squeeze Type:				
No. Centralizers: 11		Top Plug: 1	Bottom Plug: 0		Shoe Depth: 2751 R	Tool Type:					
Cement Head Type: Single		Stage Tool Type:		Stage Tool Depth: 0 R	Tool Depth: 0 ft						
Job Scheduled For: 5/14/99		Arrived on Location: 9:00	Leave Location: 5/14/99 14:30		Casing Type: Auto-Fill	Tail Pipe Size: 0 in					
				Casing Depth: 2706 ft	Tail Pipe Depth: 0 R	Seq Total Vol: 0 bbl					
Time	Depth	Pressure UI	Reset Volume	Tail Pipe	Message						
24 hr clock	ft	psi	gal	ft							
12:18	0	0	0	0	0	0	START ACQUISITION				
12:19	0.	-6.25	-3512	0.	0.	0					
12:20	0.	8.39	54.95	0.	0.	0					
12:20	0.578	8.33	238.1	0.578	4.53	0					
12:21	3.34	8.33	242.7	3.34	5.59	0					
12:21	6.15	8.36	251.8	6.15	5.59	0					
12:22	8.96	8.36	242.7	8.96	5.59	0					
12:22	8.96	8.36	242.7	8.96	5.59	0	Start Pumping Water				
12:22	11.77	8.36	265.6	11.77	5.59	0					
12:23	14.59	8.36	261.	14.59	5.59	0					
12:23	17.4	8.36	261.	17.4	5.59	0					
12:24	20.21	8.35	274.7	20.21	5.59	0					
12:24	20.21	8.35	274.7	20.21	5.59	0	[Reset Volume]=0 bbl				
12:24	20.21	8.35	274.7	20.21	5.59	0	Start Mixing Lead Slurry				
12:24	23.02	13.52	343.4	2.15	5.56	0					
12:25	25.83	12.27	320.5	4.97	5.59	0					
12:25	28.64	12.64	315.9	7.78	5.59	0					
12:26	31.46	12.26	279.3	10.59	5.59	0					
12:26	34.27	12.42	270.1	13.41	5.59	0					
12:27	37.08	12.08	233.5	16.22	5.59	0					
12:27	39.9	12.48	251.8	19.03	5.56	0					

Well			Field			Service Date		Customer		Job Number
Shields #1-2			Hugoton					HELMERICH & PAYNE INC		20106975
Time	Conc/Wal	Density	Pressure U1	Reset Volume	TotFlowrate			Message		
24 hr clock	bbf	sgg	psf	bbf	bpm					
12:28	42.71	12.33	196.9	21.84	5.59	0	0			
12:28	45.52	12.05	169.4	24.66	5.59	0	0			
12:29	48.33	12.24	141.9	27.47	5.59	0	0			
12:29	51.15	12.36	132.8	30.28	5.59	0	0			
12:30	53.96	12.24	128.2	33.09	5.56	0	0			
12:30	56.77	12.05	114.5	35.81	5.59	0	0			
12:31	59.58	12.36	109.9	38.72	5.56	0	0			
12:31	62.39	12.39	123.6	41.53	5.59	0	0			
12:32	65.21	12.19	119.	44.34	5.59	0	0			
12:32	68.02	12.15	119.	47.15	5.59	0	0			
12:33	70.83	12.18	114.5	49.97	5.56	0	0			
12:33	73.64	12.32	109.9	52.78	5.59	0	0			
12:34	76.45	12.1	109.9	55.59	5.56	0	0			
12:34	79.27	12.2	119.	58.4	5.59	0	0			
12:35	82.08	12.42	68.68	61.22	5.59	0	0			
12:35	84.89	12.33	77.84	64.03	5.59	0	0			
12:36	87.7	12.25	73.26	66.84	5.59	0	0			
12:36	90.51	12.32	123.6	69.65	5.56	0	0			
12:37	93.33	11.85	114.5	72.46	5.59	0	0			
12:37	96.14	12.23	123.6	75.27	5.59	0	0			
12:38	98.95	12.33	123.6	78.09	5.59	0	0			
12:38	101.8	11.82	119.	80.9	5.59	0	0			
12:39	104.6	12.17	128.2	83.71	5.59	0	0			
12:39	107.4	12.32	128.2	86.52	5.59	0	0			
12:40	110.2	12.32	128.2	89.33	5.59	0	0			
12:40	113.	12.39	128.2	92.15	5.56	0	0			
12:41	115.8	12.24	132.8	94.96	5.59	0	0			
12:41	118.6	12.1	123.6	97.77	5.59	0	0			
12:42	121.4	12.42	132.8	100.6	5.59	0	0			
12:42	124.3	12.42	132.8	103.4	5.59	0	0			
12:43	127.1	12.39	128.2	106.2	5.59	0	0			
12:43	129.9	12.17	123.6	109.	5.59	0	0			
12:44	132.7	12.42	132.8	111.8	5.59	0	0			
12:44	135.5	12.23	128.2	114.6	5.59	0	0			
12:45	138.3	12.29	123.6	117.5	5.59	0	0			
12:45	141.1	12.36	123.6	120.3	5.59	0	0			
12:46	143.9	12.	128.2	123.1	5.59	0	0			
12:46	146.8	12.49	132.8	125.9	5.59	0	0			
12:47	149.6	12.35	132.8	128.7	5.59	0	0			
12:47	152.4	12.14	128.2	131.5	5.59	0	0			
12:48	155.2	12.2	123.6	134.3	5.59	0	0			
12:48	158.	12.22	123.6	137.1	5.59	0	0			
12:48	160.8	12.15	123.6	140.	5.62	0	0			
12:49	163.6	12.12	128.2	142.8	5.59	0	0			
12:50	166.4	12.29	128.2	145.6	5.59	0	0			
12:50	169.2	12.33	128.2	148.4	5.59	0	0			
12:51	172.1	12.3	128.2	151.2	5.59	0	0			
12:51	172.1	12.3	128.2	151.2	5.59	0	0	[[Reset Volume]=0 bbf		
12:51	174.9	12.21	128.2	154.	5.59	0	0			
12:51	174.9	12.21	128.2	154.	5.59	0	0	Start Mhdng Tail Slurry		
12:52	177.7	14.16	174.	2.72	5.59	0	0			
12:52	180.5	15.08	224.4	5.53	5.59	0	0			
12:53	183.3	14.99	215.2	8.34	5.59	0	0			

ORIGINAL

Well		Field				Service Date		Customer		Job Number	
Shields #1-2		Hugoton						HELMERICH & PAYNE INC		20105875	
Time	CumVol	Density	Pressure U1	Reset Volume	Toolflowrate			Message			
24 hr clock	bbbl	ppg	psl	bbbl	bpm						
12:53	186.1	14.74	215.2	11.15	5.99	0	0				
12:54	188.9	14.96	206	13.96	5.99	0	0				
12:54	191.7	14.96	215.2	16.78	5.99	0	0				
12:55	194.6	14.93	201.5	19.59	5.99	0	0				
12:55	197.4	14.62	183.2	22.4	5.99	0	0				
12:56	200.2	14.92	192.3	25.21	5.99	0	0				
12:56	203.	14.31	82.42	27.99	4.03	0	0				
12:56	203.	14.31	82.42	27.99	4.03	0	0	Shutdown			
12:57	203.	14.31	82.42	27.99	4.03	0	0	Drop Top Plug			
12:57	203.	14.31	82.42	27.99	4.03	0	0	Start Displacement			
12:57	203.	14.31	82.42	27.99	4.03	0	0	[CumVol]=203 bbl			
12:57	203.	14.31	82.42	27.99	4.03	0	0	Reset Volume			
12:57	0.	14.09	-13.74	28.05	0.	0	0				
12:57	0.	14.09	-13.74	28.05	0.	0	0	PAUSE ACQUISITION			
12:58	0.	14.09	-13.74	28.05	0.	0	0	RESTART AFTER PAUSE			
12:58	0.389	8.76	-22.89	28.44	0.	0	0				
12:58	0.389	8.76	-22.89	28.44	0.	0	0	[Reset Volume]=0 bbl			
12:58	1.45	8.64	59.52	1.08	5.73	0	0				
13:00	4.31	8.46	100.7	3.82	5.82	0	0				
13:00	7.11	8.49	141.9	6.72	5.82	0	0				
13:01	9.91	8.45	192.3	9.52	5.99	0	0				
13:01	12.71	8.49	210.8	12.32	5.99	0	0				
13:02	15.52	9.52	238.1	15.13	5.99	0	0				
13:02	18.32	11.68	274.7	17.93	5.99	0	0				
13:03	21.12	13.47	302.2	20.73	5.99	0	0				
13:03	23.92	8.59	315.9	23.53	5.99	0	0				
13:04	26.72	8.58	348.	26.33	5.58	0	0				
13:04	29.53	8.61	370.9	29.14	5.58	0	0				
13:05	32.33	8.56	393.8	31.94	5.99	0	0				
13:05	35.13	8.65	416.7	34.74	5.99	0	0				
13:06	37.93	8.72	444.1	37.54	5.58	0	0				
13:06	40.74	8.75	485.3	40.35	5.99	0	0				
13:07	43.54	8.75	522.	43.15	5.99	0	0				
13:07	46.34	8.75	572.3	45.95	5.99	0	0				
13:08	49.14	8.7	618.1	48.75	5.99	0	0				
13:08	51.94	8.64	668.5	51.55	5.99	0	0				
13:09	54.74	8.54	723.4	54.36	5.99	0	0				
13:09	57.55	8.54	778.4	57.18	5.56	0	0				
13:10	60.35	8.51	833.3	59.98	5.99	0	0				
13:10	61.9	8.6	732.8	61.51	2.1	0	0				
13:11	62.94	8.57	746.3	62.55	2.04	0	0				
13:11	63.97	8.52	760.1	63.58	2.07	0	0				
13:12	64.99	8.6	778.4	64.6	2.01	0	0				
13:12	65.99	7.83	787.5	65.6	1.99	0	0				
13:13	66.97	8.18	805.9	66.58	1.83	0	0				
13:13	67.65	8.46	1177	67.28	0.	0	0				
13:14	67.71	8.58	1401	67.32	0.224	0	0				
13:14	67.75	8.58	1561	67.36	0.	0	0				
13:14	67.75	8.58	1561	67.36	0.	0	0	Bump Top Plug			
13:15	67.75	8.57	1561	67.36	0.	0	0				
13:15	67.75	8.57	1561	67.36	0.	0	0	Bleed Off Pressure			
13:15	67.75	8.52	595.2	67.36	0.	0	0				
13:16	67.75	8.54	0.	67.36	0.	0	0				

ORIGINAL

Well			Field			Service Date		Customer		Job Number
Shields #1-2			Hugoton					HELMERICH & PAYNE INC		20105675
Time	Con/Wal	Density	Pressure U1	Reset Volume	TotFlowrate			Message		
24 hr clock	bbl	ppg	psi	bbl	bpm					
13:16	67.76	8.52	13.74	67.37	0.503	0	0			
13:17	68.17	8.51	1571	67.78	0	0	0			
13:17	68.17	8.51	1571	67.78	0	0	0	PAUSE ACQUISITION		
13:27	68.17	8.51	1571	67.78	0	0	0	RESTART AFTER PAUSE		
13:27	68.17	8.61	9.16	67.78	0	0	0			
13:27	68.17	8.61	9.16	67.78	0	0	0	Pressure Test Casing		
13:27	68.53	8.58	984.4	68.14	0.851	0	0			
13:28	68.69	8.58	1648	68.3	0	0	0			
13:28	68.69	8.58	1639	68.3	0	0	0			
13:29	68.69	8.52	1635	68.3	0	0	0			
13:29	68.69	8.52	1635	68.3	0	0	0			
13:30	68.69	8.5	1630	68.3	0	0	0			
13:30	68.69	8.47	1630	68.3	0	0	0			
13:31	68.69	8.42	1625	68.3	0	0	0			
13:31	68.69	8.42	1625	68.3	0	0	0			
13:32	68.69	8.42	1621	68.3	0	0	0			
13:32	68.69	8.4	1625	68.3	0	0	0			
13:33	68.69	8.41	1625	68.3	0	0	0			
13:33	68.69	8.39	1612	68.3	0	0	0			
13:34	68.69	8.39	1612	68.3	0	0	0			
13:34	68.69	8.36	1612	68.3	0	0	0			
13:35	68.69	8.36	1612	68.3	0	0	0			
13:35	68.69	8.36	1612	68.3	0	0	0			
13:35	68.69	8.36	1612	68.3	0	0	0			
13:36	68.69	8.36	1612	68.3	0	0	0			
13:37	68.69	8.36	1612	68.3	0	0	0			
13:37	68.69	8.33	1612	68.3	0	0	0			
13:38	68.69	8.36	1607	68.3	0	0	0			
13:38	68.69	8.35	1603	68.3	0	0	0			
13:39	68.69	8.33	1603	68.3	0	0	0			
13:39	68.69	8.33	1603	68.3	0	0	0			
13:40	68.69	8.33	1603	68.3	0	0	0			
13:40	68.69	8.33	1603	68.3	0	0	0			
13:41	68.69	8.36	1603	68.3	0	0	0			
13:41	68.69	8.32	1598	68.3	0	0	0			
13:42	68.69	8.33	1593	68.3	0	0	0			
13:42	68.69	8.33	1593	68.3	0	0	0			
13:43	68.69	8.33	1593	68.3	0	0	0			
13:43	68.69	8.33	1593	68.3	0	0	0			
13:44	68.69	8.33	1589	68.3	0	0	0			
13:44	68.69	8.33	1589	68.3	0	0	0			
13:45	68.69	8.34	1583	68.3	0	0	0			
13:45	68.69	8.33	1584	68.3	0	0	0			
13:46	68.69	8.32	1589	68.3	0	0	0			
13:46	68.69	8.33	1584	68.3	0	0	0			
13:47	68.69	8.33	1575	68.3	0	0	0			
13:47	68.69	8.33	1584	68.3	0	0	0			
13:48	68.69	8.33	1580	68.3	0	0	0			
13:48	68.69	8.32	1575	68.3	0	0	0			
13:48	68.69	8.33	1575	68.3	0	0	0			
13:48	68.69	8.33	1575	68.3	0	0	0			
13:50	68.69	8.33	1575	68.3	0	0	0			
13:50	68.69	8.31	1575	68.3	0	0	0			

Well		Field				Service Date		Customer		Job Number	
Shields #1-2		Hugoton						HELMERICH & PAYNE INC		20106975	
Time	CumVol	Density	Pressure U1	Reset Volume	TotFlowrate			Message			
24 hr clock	bbf	ppg	psf	bbf	bpm						
13:51	68.69	8.33	1575	68.3	0.	0	0				
13:51	68.69	8.32	1575	68.3	0.	0	0				
13:52	68.69	8.3	1575	68.3	0.	0	0				
13:53	68.69	8.31	1566	68.3	0.	0	0				
13:53	68.69	8.33	1571	68.3	0.	0	0				
13:54	68.69	8.33	1566	68.3	0.	0	0				
13:54	68.69	8.34	1561	68.3	0.	0	0				
13:55	68.69	8.33	1566	68.3	0.	0	0				
13:55	68.69	8.33	1566	68.3	0.	0	0				
13:56	68.69	8.3	1566	68.3	0.	0	0				
13:56	68.69	8.33	1557	68.3	0.	0	0				
13:57	68.69	8.34	1557	68.3	0.	0	0				
13:57	68.69	8.32	1557	68.3	0.	0	0				
13:58	68.69	8.33	137.4	68.3	0.	0	0				
Post Job Summary											
Average Pump Rates, bpm						Volume of Fluid Injected, bbl					
Slurry	N2	Med	Maximum Rate	Total Slurry	Med	Spacer	N2				
5	0	0	5.8	185	0	20	0				
Treating Pressure Summary, psi						Breakdown Fluid					
Maximum	Final	Average	Bump Plug to	Breakdowns	Type	Volume	Quantity				
830	800	250	0	0		0 bbl	0 lb/gal				
Avg. N2 Percent	Designed Slurry Volume	Displacement	Slurry Water Temp	<input checked="" type="checkbox"/> Cement Circulated to Surface?	Volume						
0 %	183 bbl	67 bbl	60 °F	<input type="checkbox"/> Washed thru Perfs	50 bbl						
Customer or Authorized Representative				Dowell Supervisor				<input type="checkbox"/> Circulation Lost <input checked="" type="checkbox"/> Job Completed			
Brad Klein				David Brawley							

ORIGINAL



Cementing Service Report

Customer CHEYENNE DRILLING		Job Number 20106065					
Well SHIELDS 1-2	Location (log#) 4, 2SS, 36W	Downhole Location Ulysses, KS	Job Start 5/12/99				
Field HUGOTON	Formation Name/Type Surface	Deviation 0	Well MD 560 ft				
County Keamy	State/Previous KS	BHP 0 psi	Pore Press. Gradient 0 psi/ft				
Rig Name Cheyenne Drilling 8	Drilled For Gas	Service Via Land	Casing/Liner				
Offset Zone	Well Class New	Well Type Development	Depth, R 560				
Drilling Fluid Type Other	Max. Density 9 lb/gal	Plastic Viscosity 38 cp	Size, in 8.63				
Service Line Cementing	Job Type Corn Surface Casing	Weight, lb/R 24	Grade 0				
Max. Allowed Tubing Pressure 1000 psi	Max. Allowed Ann. Pressure 0 psi	Wellhead Connection Single cement head	Thread 0				
Service Instructions Cement 8 5/8" surface pipe with 150 sks of lead and 100 sks of tail. 200 sks of lead is loaded - leave 50 sks on the truck. 30 miles			Perforations/Open Hole				
			Top, R 0				
			Bottom, R 0				
			spf 0				
			No. of Shots 0				
			Total Interval 0 ft				
			Diameter 0 in				
			Tract Down Casing				
			Displacement 0 bbl				
			Passer Type None				
			Passer Depth 0 ft				
			Tubing Vol. 0 bbl				
			Casing Vol. 0 bbl				
			Annular Vol. 0 bbl				
			Open Hole Vol. 0 bbl				
Casing/Tubing Secured <input checked="" type="checkbox"/> 1 Main Valves Closed prior to Cementing <input type="checkbox"/>							
LR Pressure: 200 psi		Casing Tools					
Pipe Retired <input type="checkbox"/>		Squeeze Job					
Pipe Replaced <input type="checkbox"/>		Squeeze Type					
No. Centralizers: 3 Top		Squeeze Depth: 536 ft					
Top Plug: 1		Tool Type: n/a					
Bottom Plug: 0		Tool Depth: 0 ft					
Cement Head Type: Single		Stage Tool Depth: 0 ft					
Job Scheduled For: 5/12/99 10:00		Tail Pipe Size: 0 in					
Arrived on Location: 5/12/99 10:00		Tail Pipe Depth: 0 ft					
Leave Location: 5/12/99 17:30		Casing Depth: 494 ft					
		Sep Total Vol: 0 bbl					
Time	Count	Density	Elapsed Time	Pressure (H)	Tool Pressure	Message	
24 hr clock	MM	PPS	min	psi	ppm		
11:47	0	0	0	0	0	START ACQUISITION	
11:47	0	8.51	0.017	4.58	0	Start Pumping Water	
11:47	0	8.51	0.017	4.58	0	Reset Volume	
11:50	0	8.51	0.017	4.58	0	[CumVol]=7.962 bbl	
11:50	0	8.51	0.017	4.58	0	Start Pumping Water	
11:52	12.43	11.93	5.03	164.8	6.1	Start Lead Slurry	
11:52	12.43	11.93	5.03	164.8	6.1	Start Mbdng Tail Slurry	
11:57	43.14	12.49	10.04	141.9	6.12	Shutdown	
11:59	43.14	12.49	10.04	141.9	6.12	Drop Top Plug	
12:02	68.64	15.08	15.05	123.6	4.19	Start Displacement	
12:05	68.64	15.08	15.05	123.6	4.19	[CumVol]=79.16 bbl	
12:05	68.64	15.08	15.05	123.6	4.19	Reset Volume	
12:05	68.64	15.08	15.05	123.6	4.19	Returns at Surface	
12:07	3.27	0	20.06	114.5	6.15	Bump Top Plug	
12:10	3.27	0	20.06	114.5	6.15	Bleed Off Pressure	
12:12	27.21	0	25.07	100.7	2.24		
12:15	27.21	0	25.07	100.7	2.24		
12:17	27.21	0	25.07	100.7	2.24		

Well		Field				Service Date		Customer		Job Number	
SHIELDS #1-2		HUGOTON						CHEYENNE DRILLING		20108065	
Time	Con/Wol	Density	Elapsed Time	Pressure U1	Tot/Flowrate			Message			
24 hr clock	bbl	ppg	min	psi	bpm						
12:17	27.21	0	25.07	100.7	2.24	0	0	End Job			
16:17	0.	0	0.017	-4.58	.1	0	0	Pressure Test Lines			
16:17	0.	0	0.017	-4.58	.1	0	0	Pressure Test Casing			
16:21	0.123	0	5.03	1525	.1	0	0				
16:26	0.123	0	10.04	1524	0.	0	0				
16:31	0.123	0	15.05	1525	0.	0	0				
16:36	0.123	0	20.06	1524	0.	0	0				
16:41	0.123	0	25.07	1525	0.	0	0				
16:47	0.123	0	30.08	1524	0.	0	0				
16:52	0.123	0	35.09	1525	0.	0	0				
16:52	0.123	0	35.09	1525	0.	0	0	Bleed Off Pressure			
16:52	0.123		35.09	0	0.	0	0	End Job			
Post Job Summary											
Average Pump Rates, bpm						Volume of Fluid Injected, bbl					
Slurry	Hz	Med	Maximum Rate	Total Slurry	Med	Spacer	Hz				
6	0	0	7	79	0	8	0				
Treating Pressure Summary, psi						Breakdown Fluid					
Maximum	Flow	Average	Surge Plug In	Breakdown	Type	Volume	Density				
1525	200	100	700	0		0 bbl	0 lb/gal				
Avg. Hz Percent	Designated Slurry Volume	Displacement	Mix Water Temp	<input checked="" type="checkbox"/> Cement Circulated to Surface?	Volume						
0 %	81 bbl	32.5 bbl	55 °F	<input type="checkbox"/> Washed Three Perfs	To 0 ft						
Customer or Authorized Representative				Dowell Supervisor				<input type="checkbox"/> Circulation Lost <input checked="" type="checkbox"/> Job Completed			
Domingo Castillo				Jeff Diecker							