

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

ORIGINAL

Operator: License # 5269  
Name: Kansas Natural Gas, Inc.  
Address P.O. Box 815  
City/State/Zip Sublette, KS 67877  
Purchaser: Williams Natural Gas  
Operator Contact Person: Mr. Steve Lehning  
Phone ( 316 ) 675-8185  
Contractor: Name: Cheyenne Drilling Company  
License # 5382  
Wellsite Geologist: Mr. Ron Osterbuhr  
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:

Operator: \_\_\_\_\_  
Well Name: \_\_\_\_\_  
Comp. Date \_\_\_\_\_ Old Total Depth \_\_\_\_\_  
 Deepening  Re-perf.  Conv. to Inj/SWD  
 Plug Back  PBSD  
 Commingled  Docket No. \_\_\_\_\_  
 Dual Completion  Docket No. \_\_\_\_\_  
 Other (SWD or Inj?)  Docket No. \_\_\_\_\_  
12-1-92 12-4-92 1-13-93  
Spud Date Date Reached TD Completion Date

API NO. 15- 081 - 20,748 - 0000  
County Haskell  
App C - NE - 1/4 Sec. 14 Twp. 29 Rge. 33  E  
4030 Feet from  N (circle one) Line of Section  
1250 Feet from  W (circle one) Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
NE,  SE, NW or SW (circle one)  
Lease Name Alleman Well # 1-2  
Field Name Hugoton  
Producing Formation Chase Series  
Elevation: Ground 2931' KB 2942'  
Total Depth 2793' PBSD 2793'  
Amount of Surface Pipe Set and Cemented at 727 Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set \_\_\_\_\_ Feet  
If Alternate II completion, cement circulated from 700'  
feet depth to 700' w/ 240 sx cmt.

Drilling Fluid Management Plan 2-12-93  
(Data must be collected from the Reserve Pit)  
Chloride content NA ppm Fluid volume NA bbls  
Dewatering method used remove & backfill  
Location of fluid disposal if hauled offsite:  
Operator Name \_\_\_\_\_  
Lease Name \_\_\_\_\_ License No. \_\_\_\_\_  
Quarter Sec. Twp. S Rng. E/W  
County \_\_\_\_\_ Docket No. \_\_\_\_\_

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, 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 Steven M. Lehning  
Title Superintendent Date 2-5-93  
Subscribed and sworn to before me this 5 day of February,  
19 93.  
Notary Public Judy L. Webb  
Date Commission Expires September 11, 1996

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

RECEIVED  
STATE CORPORATION COMMISSION  
2-8-93  
FEB 8 1993  
CONSERVATION DIVISION  
Wichita, Kansas



PI

Operator Name Kansas Natural Gas, Inc. Lease Name Alleman Well # 1-2  
 Sec. 14 Twp. 29 Rge. 33  East  West  
 County Haskell

ORIGINAL

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 (Attach Additional Sheets.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datums	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	T/Cement (for 5 1/2")	280'	+2662
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	T/Permian	799'	+2143
List All E.Logs Run:		T/Cedar Hills	1358'	+1584
Gamma Ray Neutron Log		E/Stone Corral	1876'	+1064
Cement Bond Log		T/"Chase Group"	2635'	+ 307
		T/Winfield	2741'	+ 201
		Plug Back TD	2793'	+ 149
		Rotary TD	2790'	+ 152

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	# Sacks Used	Type and Percent Additives
Surface Casing	12 1/4"	8 5/8"	24#	727'	Class "C"	340	6% Gel
Production Casing	7 7/8"	5 1/2"	14#	2778' G.L.	Class "C"	600	2% Cal. Ch.

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	
	(3) Shots Per Foot	2673' - 2683'	10' Zone	Acid - 2500 gals 15% MSR 100, 2 gals A-260,
	2698' - 2706'	8' Zone	150 Ball Sealers	
	2715' - 2721'	6' Zone	Fracture - Diverta Frac, 123,140# Brady 10/20 Sand,	
			15 gals Bactericide, 98 gals F-75N, 20# Cross Linker	

<b>TUBING RECORD</b>	Size 2 3/8" EUE	Set At 2765'	Packer At None	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Inj. Pending pipeline connection	Producing Method <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. NOTE: Estimated Production	Gas Mcf N/A	Water Bbls. N/A	Gas-Oil Ratio N/A
				Gravity N/A

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

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

Production Interval: 2673' - 2683'  
2698' - 2706'  
2715' - 2721'

RECEIVED  
STATE CORPORATION COMMISSION  
FEB 8 1993  
DIVISION

ORIGINAL

DRILLERS LOG

KANSAS NATURAL GAS, INC.  
ALLEMAN #1-2  
SECTION 14-T29S-R33W  
HASKELL COUNTY, KANSAS

COMMENCED: 12-01-92  
COMPLETED: 12-04-92

SURFACE CASING: 726' OF 8 5/8"  
CMTD W/190 SX 65/35 POZ/C, 6% D-20  
2% SI, 1/4#/SX CELLO-FLAKE; TAILED IN W/  
150 SX "C", 2% SI, 1/4#/SX CELLO-FLAKE

FORMATION	DEPTH
SURFACE HOLE	0- 743
SAND & RED BED	743-1081
RED BED	1081-1360
GLORIETTA SAND	1360-1510
RED BED	1510-1910
RED BED & ANHYDRITE	1910-2300
LIME & SHALE	2300-2430
SHALE & LIME	2430-2703
CHASE, LIME & SHALE	2703-2790 RTD

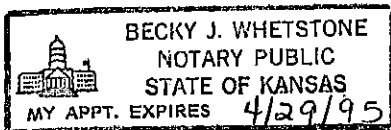
I DO HEREBY CERTIFY THAT THE FOREGOING STATEMENTS ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

CHEYENNE DRILLING, INC.

A.J. JACQUES

STATE OF KANSAS :ss:

SUBSCRIBED AND SWORN TO BEFORE ME THIS 4TH DAY OF DECEMBER, 1992.



Becky J. Whetstone

BECKY J. WHETSTONE, NOTARY PUBLIC

RECEIVED  
STATE DEPARTMENT FROM ADMINISTRATION

FEB 0 1993  
CONSERVATION DIVISION  
Wichita, Kansas

DRILLING & GEOLOGICAL SUMMARY

ORIGINAL

OPERATOR: Kansas Natural Gas, Inc. KCC #: 5269  
 WELL NAME: Alleman #1-2 API #: 15-081-20,748  
 LOCATION: 4030' FSL, 1250' FEL sec 14-T29S-R33W COUNTY: Haskell  
 ELEVATIONS: GL-2931', KB-2942' TOTAL DEPTH: 2790'  
 SPUD DATE: 12/01/92 DRILLING COMPLETED: 12/04/92  
 DRILLING CONTRACTOR: Cheyenne Drlg. - Rig #3 KCC #: 5382

SURFACE CASING SIZE: 8.625" WEIGHT: 24# GRADE: J55 DEPTH: 741'  
 CEMENT: 190 sx of 65/35 with 6% gel, 2% CaCl<sub>2</sub>, 1/4# cello-flake; and  
 150 sx Class "C" with 2% CaCl<sub>2</sub>, 1/4# cello-flake.  
 CASING EQUIPMENT: 2 centralizers, baffle-plate, "Texas" pattern shoe.  
 COMMENTS: circulated 3 sx cement to surface.

PRODUCTION CASING SIZE: 5.500" WEIGHT: 14# GRADE: J55 DEPTH: 2794'  
 1st STAGE CEMENT: 500 sx of 65/35 with 6% gel, 2% CaCl<sub>2</sub>, 1/4# flake;  
 100 sx "C" with 1% CaCl<sub>2</sub>, 1% "FLAC", .2% anti-foamer.  
 2nd STAGE CEMENT:  
 CASING EQUIPMENT: 8 centralizers, guide shoe, latch-down baffle & plug.  
 COMMENTS: displaced latch-down plug with acetic acid and 2% KCl water.  
 landed plug @ 1670#, circulated approx. 27 sx cement to surface.

OPEN-HOLE LOGS: none

CASED-HOLE LOGS: G/R-Neutron, CCL, Cement bond

FORMATION TOPS:

horizon	depth	datum	remarks
T/Cement (for 5 1/2")	280'	+2662'	cement top from bond log
T/Permian	799'	+2143'	"red beds"
T/Cedar Hills	1358'	+1584'	unconsolidated fine sand
B/Stone Corral	1878'	+1064'	anhydrite marker
T/"Chase Group"	2635'	+ 307'	
T/Winfield	2741'	+ 201'	
Plug-back Depth	2793'	+ 149'	log depth
Casing Total Depth	2794'	+ 148'	log depth
Rotary Total Depth	2790'	+ 152'	driller depth

PERFORATIONS: 2673'-2683', 2698'-2706', 2715'-2721'; all intervals with  
 3 jet shots per foot.

ACID TREATMENTS: 2500 gallons 15% HCl

FRACTURE TREATMENTS:

REMARKS: all depths are from KB elevation.

CEMENTING SERVICE REPORT



DOWELL SCHLUMBERGER INCORPORATED

TREATMENT NUMBER	03-12-4914	DATE	12-1-92
STAGE	DS	DISTRICT	Ulysses, Ts.

DS-496 PRINTED IN U.S.A.

WELL NAME AND NO.	AlloMAH #1-2	LOCATION (LEGAL)	SPR. 14-295-334
FIELD-POOL		FORMATION	
COUNTY/PARISH	Haskell	STATE	Ts.
API. NO.			
NAME	Cheyenne Drilling		
AND			
ADDRESS			
ZIP CODE			

RIG NAME	Cheyenne #3		
WELL DATA	BOTTOM	TOP	
BIT SIZE	2 7/8	CSG/Liner Size	8 7/8
TOTAL DEPTH	743	WEIGHT	24
<input type="checkbox"/> ROT <input type="checkbox"/> CABLE	FOOTAGE	743	
MUD TYPE	GRADE	SS	
<input type="checkbox"/> BHST <input type="checkbox"/> BHCT	THREAD	Reg	
MUD DENSITY	LESS FOOTAGE SHOE JOINT(S)	43	TOTAL
MUD VISC.	Disp. Capacity	44.5	

SPECIAL INSTRUCTIONS  
a a

IS CASING/TUBING SECURED?  YES  NO

LIFT PRESSURE 305 PSI CASING WEIGHT + SURFACE AREA (3.14 x R<sup>2</sup>)

PRESSURE LIMIT PSI BUMP PLUG TO 940 PSI

ROTATE RPM RECIPROCATATE FT No. of Centralizers 2

NOTE: Include Footage From Ground Level To Head In Disp. Capacity		
Float	TYPE Baffle Plate	DEPTH 700
SHOE	TYPE T.A. Pattern	DEPTH 743
Head & Plugs	<input type="checkbox"/> TBG <input type="checkbox"/> D.P.	SQUEEZE JOB
<input type="checkbox"/> Double	SIZE	TOOL TYPE
<input checked="" type="checkbox"/> Single	<input type="checkbox"/> WEIGHT	DEPTH
<input type="checkbox"/> Swage	<input type="checkbox"/> GRADE	TAIL PIPE: SIZE DEPTH
<input type="checkbox"/> Knockoff	<input type="checkbox"/> THREAD	TUBING VOLUME Bbbs
TOP <input type="checkbox"/> OR <input type="checkbox"/> CW	<input type="checkbox"/> NEW <input type="checkbox"/> USED	CASING VOL. BELOW TOOL Bbbs
BOT <input type="checkbox"/> OR <input type="checkbox"/> DW	DEPTH	TOTAL Bbbs
		ANNUAL VOLUME Bbbs

TIME	PRESSURE	VOLUME PUMPED bbl	JOB SCHEDULED FOR TIME DATE	ARRIVE ON LOCATION TIME DATE	LEFT LOCATION TIME DATE
0001 to 2400	TBG OR D.P. CASING	INCREMENT CUM	0000 12-1-92	0000 12-1-92	0000 12-2-92

TIME	TBG OR D.P.	CASING	INCREMENT	CUM	INJECT RATE	FLUID TYPE	FLUID DENSITY	SERVICE LOG DETAIL
								PRE-JOB SAFETY MEETING
2223		50	10		6	H2O		start H2O ahead
2225		280	71		6	cmt.	12.2	start lead cmt.
2230		290	33		6	cmt.	12.2	psi check
2238		310	35		6	cmt.	14.8	start tail cmt.
2240		370	17		6	cmt.	14.8	psi check
2245		0						shut down drop top plug
2246		70	44.5		6	H2O		start displacement
2248		200	10		6			psi check
2251		330	30		6			psi check
2252		370	35		2			lower rate
2255		250	41		2			psi check
2257		940	44.5		2			bump top plug blood psi of to 250 psi shut manifold in end job
2303								

ORIGINAL

REMARKS

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS	SLURRY MIXED BBLs	DENSITY
1.	190	2.10	3 <sup>1/2</sup> spoz + 6% gel + 2% carls + 1/4" D29	71	12.2
2.					
3.	150	1.32	class C + 2% carls + 1/4" D29	35	14.8
4.					
5.					
6.					

BREAKDOWN FLUID TYPE	VOLUME	DENSITY	PRESSURE	MAX.
<input type="checkbox"/> HESITATION SQ. <input type="checkbox"/> RUNNING SQ.	CIRCULATION LOST	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Cement Circulated To Surf.	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
BREAKDOWN	PSI FINAL	PSI	DISPLACEMENT VOL.	44.5 Bbbs
Washed Thru Perfs <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	TO	FT.	MEASURED DISPLACEMENT	<input type="checkbox"/> WIRELINE
PERFORATIONS	TO	TO	CUSTOMER REPRESENTATIVE	DS SUPERVISOR
			Duane Bell	James Esquivel

# DOWELL SCHLUMBERGER INCORPORATED

P.O. BOX 4378 HOUSTON, TEXAS 77210

D.S.I. REPRESENTATIVE

OILFIELD SERVICES	<input type="checkbox"/>
INDUSTRIAL SERVICES	<input type="checkbox"/>

DSI SERVICE ORDER / RECEIPT AND INVOICE NO.  
03-12-4914

DSI SERVICE LOCATION NAME AND NUMBER  
Llysses, N. 03-12

CUSTOMER NUMBER	CUSTOMER P.O. NUMBER	TYPE SERVICE CODE 211	BUSINESS CODES
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CUSTOMER'S NAME

Choyrino Drilling

ADDRESS

CITY, STATE AND ZIP CODE

WORKOVER	<input type="checkbox"/>	W	API OR IC NUMBER
NEW WELL	<input checked="" type="checkbox"/>	N	
OTHER	<input type="checkbox"/>		

IMPORTANT SEE OTHER SIDE FOR TERMS & CONDITIONS

ARRIVE LOCATION	MO. 12	DAY 1	YR. 92	TIME 2000
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**SERVICE ORDER RECEIPT**  
I certify that the materials and services listed were authorized and received and all services performed in a workmanlike manner and that I have the authority to accept and execute this document.

JOB COMPLETION	MO. 12	DAY 1	YR. 92	TIME 2000
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SIGNATURE OF CUSTOMER OR AUTHORIZED REPRESENTATIVE  
James Bell

STATE TX	CODE	COUNTY / PARISH Tarrant	CODE	CITY Ft Worth
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WELL NAME AND NUMBER / JOB SITE The Park 14-2	LOCATION AND POOL / PLANT ADDRESS 507th - 290-33	SHIPPED VIA D/S
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ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
054200-002	mileage	mi	30	265	79.50
054697-000	SALE TAX	EA	1	140.00	140.00
102811-010	WATER	EA	1	140.00	140.00
043001-000	fuel	EA	1	63.00	63.00
049100-000	body	EA	485	.88	426.80
049100-000	body	EA	369	1.20	442.80
040003-000	SALES TAX	EA	174	11.98	2186.52
045008-000	SALES TAX	EA	166	3.44	760.04
045014-050	SALES TAX	EA	992	.15	148.80
067005-100	SALES TAX	EA	613	.36	220.68
044603-025	SALES TAX	EA	86	1.59	136.74
056011-085	SALES TAX	EA	210	.70	148.00
056015-085	SALES TAX	EA	110	.80	80.00
056702-085	SALES TAX	EA	110	.88	98.00
057494-001	SALES TAX	EA	1	25.00	25.00
2823.09					

REMARKS: Thank you for using D/S

SUB-TOTAL: 5132.88

LICENSE/REIMBURSEMENT FEE	
LICENSE/REIMBURSEMENT FEE	
REMARKS:	STATE % TAX ON \$
	COUNTY % TAX ON \$
	CITY % TAX ON \$
SIGNATURE OF DSI REPRESENTATIVE James E. ...	TOTAL \$

GENERAL TERMS AND CONDITIONS

1. AMENDMENTS: Any modification of this document by the Customer, and all additional or different terms included in the Customer's purchase order or any other document responding to this contract, are hereby objected to. BY REQUESTING THE GOODS AND SERVICES SET FORTH HEREIN, BUYER AGREES TO ALL THE TERMS AND CONDITIONS CONTAINED ON BOTH SIDES OF THIS DOCUMENT.

2. TERMS. Cash in advance unless DSI has approved credit prior to the sale. Credit terms of sale for approved accounts are total invoice amount due at DSI's office, Houston, Texas, on or before the 30th day from the date of invoice. Past due accounts are to pay interest on the balance past due at the rate of 1 1/2% per month or the maximum allowable by the applicable state laws if such laws limit interest to a lesser amount. In the event it is necessary to employ an agency and/or attorney to effect collection of said account, Customer agrees to pay all fees directly or indirectly incurred for such collection.

3. PRICES. The products and services to be supplied hereunder shall be priced in accordance with DSI's current Price Schedule. As provided in DSI's Price Schedule, special jobs, under unusual conditions, will be subject to special price quotations to reflect increased or reduced costs.

4. TAXES. Any tax based on or measured by the charge for sale or rental of products or rendering of service shall be added to the price stated in DSI's Price Schedule.

5. INDEPENDENT CONTRACTOR. DSI is and shall be an independent contractor with respect to the performance of this contract, and neither DSI nor anyone employed by DSI, shall be the agent, representative, employee or servant of Customer in the performance of this contract or any part hereof.

6. FORCE MAJEURE. Any delays or failure by DSI in the performance of this contract shall be excused if and to the extent caused by war, fire, flood, strike, labor trouble, accident, riot, acts of God, or any contingencies beyond the reasonable control of DSI.

7. DISPOSAL. Disposal of the chemicals used in the performance of this contract is the responsibility of Customer. Customer agrees the chemicals will be disposed of in accordance with all applicable Federal, State and local laws and regulations.

12. SEVERABILITY. It is understood and agreed by the parties hereto that any part, term, or provision of this Contract prohibited by law shall be deemed invalid to the extent of such prohibition and shall be deemed modified to the extent necessary to conform to such rule of law.

SPECIAL TERMS AND CONDITIONS

In addition to the foregoing General Terms and Conditions which are applicable to all services and products furnished by DSI, the following Special Terms and Conditions are applicable to Oil Field Services and Mining Services. In the event of any conflict, inconsistency, or incongruity between the General Terms and Conditions and the Special Terms and Conditions, the Special Terms and Conditions shall govern and control.

13. WELL. The term "well" as used herein shall also be construed to include and mean a "mine" or other property being serviced where the work to be performed involves DSI mining services.

14. CUSTOMER'S RESPONSIBILITY & INDEMNITIES. The parties agree that Customer has complete custody and control of the well, the conditions created in the well, the drilling equipment, well premises and access routes from highways to well locations. Customer will have the well in readiness for the service and, following service, will return the well to production. The parties further agree that unless caused by DSI's willful misconduct or failure to exercise good faith, Customer shall be fully responsible for and defend, indemnify and save harmless DSI, its officers, agents and employees against:

(i) Liability for damage to property of Customer (and well owner if different from Customer), this provision applying but not limited to subsurface damage and surface damage arising from subsurface damage including any liability based in whole or in part on the negligence of DSI.

(ii) Liability for reservoir loss or damage, or any property damage (including but not limited to damages caused by pollution or contamination), or personal injuries resulting directly or indirectly from subsurface pressure, well blowout or cratering, or losing control of the well including any liability based in whole or in part on the negligence of DSI.

(iii) Liability for any damages whatever resulting directly or indirectly from a subsurface trespass, pollution or contamination arising out of any servicing operation performed by DSI or Customer including any liability based in whole or in part on the negligence of DSI.

(iv) Liability for injury to persons (including death) or damage to property, other than employees and property of DSI, growing out of or in any way connected with the use of materials in the well which are radioactive, poison, toxic or otherwise hazardous including any liability based in whole or in part on the negligence of DSI.

8. PRODUCT SALES AND RENTALS - WARRANTY. DSI warrants only that products (including tools, supplies and materials) furnished shall conform to the quality and specification represented and that DSI can convey good title; DSI MAKES NO WARRANTY OF MERCHANTABILITY, OR THAT SAID PRODUCTS SHALL BE FIT FOR ANY PARTICULAR PURPOSE, NOR IS THERE ANY OTHER WARRANTY EXPRESSED OR IMPLIED EXCEPT AS EXPRESSLY STATED HEREIN. DSI's liability and Customer's exclusive remedy for any cause of action arising out of a product sale or rental pursuant hereto is expressly limited at DSI's option to (a) replacement or such product upon its return to DSI or (b) allowance to Customer of credit for the cost of such product.

9. SERVICE WARRANTY. In interpreting information and making recommendations, either written or oral, as to type or amount of material or service to be furnished, or manner of performance, or in predicting results to be obtained therefrom, DSI will give Customer the benefit of its best judgment based on its experience in the field. Nevertheless, all such recommendations or predictions are opinions only; and, in view of the impracticability of obtaining first-hand knowledge of the many variable conditions and/or the necessity of relying on facts and supporting services furnished by others, NO WARRANTY IS GIVEN CONCERNING THE EFFECTIVENESS OF THE MATERIALS USED, RECOMMENDATIONS GIVEN, OR THE SERVICES RENDERED.

10. LIABILITY AND INDEMNITY. Customer agrees to be responsible for and to defend, indemnify and save harmless DSI, its officers, agents and employees, from any and all claims, loss, damage or expense by reason of accident, injuries, damages or hurt to any person or property, including property of DSI or Customer, that may occur in connection with or related to the performance of this contract and which is caused in whole or in part by the negligent act or omission of Customer, its agents, servants or employees and whether or not caused in part by the negligent act or omission of DSI. In no event shall DSI be liable for any special, incidental, indirect, punitive, or consequential damage, including, but not limited to, loss of use or loss of profit, for breach of contract, negligence (including DSI's sole negligence) or any other cause of action.

11. DSI. The term "DSI" as used herein is an abbreviation of Dowell Schlumberger Incorporated and where used throughout this agreement, shall be construed to mean Dowell Schlumberger Incorporated, a Delaware corporation.

(v) Liability for damages to property of customer or third parties or injuries to persons caused or alleged to have been caused by contamination or pollution from the application or use of products designed to control dust, wind erosion, product loss, sealing of ponds, reservoirs, irrigation canals, or sanitary landfills including any liability based in whole or in part on the negligence of DSI.

(vi) Liability for injury to persons (including death) or damage to property growing out of or in any way connected to the use of various equipment provided by DSI at no cost for the sole convenience of and use by the Buyer including any liability based in whole or in part on the negligence of DSI.

(vii) Liability for damage to property of Customer (and well owner if different from Customer), resulting directly or indirectly, from tools or instruments of DSI being lost in a well, including any liability based in whole or in part on the negligence of DSI.

15. DOWN-HOLE TOOLS AND INSTRUMENTS. If tools or instruments of DSI are lost in a well, Customer agrees to make a reasonable effort at Customer's risk and expense to recover same; and, if unable to recover, to pay DSI for same unless such loss or damage was caused solely by DSI's negligence.

16. OFFSHORE & MARINE OPERATIONS. For offshore marine operations Customer agrees to insure against loss and assume full responsibility for damage to equipment furnished by DSI from time of delivery to Customer at landing until returned to landing when transported on craft, or located on platforms not owned or leased by DSI.

Customer shall furnish transportation for crew changes at customers expense.

CEMENTING SERVICE REPORT



DOWELL SCHLUMBERGER INCORPORATED

TREATMENT NUMBER <b>03-12-4920</b>	DATE <b>12-4-92</b>
STAGE <b>DS</b>	DISTRICT <b>U1433ES K3</b>

DS-496, PRINTED IN U.S.A.

WELL NAME AND NO. <b>Alleman #1-2</b>	LOCATION (LEGAL) <b>Sec 14-295-33W</b>	RIG NAME <b>Cheyenne #3</b>
FIELD-POOL	FORMATION	WELL DATA: BIT SIZE <b>7 7/8</b> CSG/Liner Size <b>5 1/2</b>
COUNTY/PARISH <b>HASKELL</b>	STATE <b>Kansas</b>	API. NO.
NAME <b>Cheyenne Drilling</b>	AND	WELL DATA: TOPT/DSPD WEIGHT <b>14#</b>
ADDRESS	ZIP CODE	<input checked="" type="checkbox"/> ROT <input type="checkbox"/> CABLE FOOTAGE <b>2815.17</b>
SPECIAL INSTRUCTIONS		MUD TYPE GRADE
		<input type="checkbox"/> BHST <input type="checkbox"/> BHCT THREAD
		MUD DENSITY LESS FOOTAGE SHOE JOINT(S)
		MUD VISC. Disp. Capacity
		NOTE: Include Footage From Ground Level To Head In Disp. Capacity
		Float TYPE <b>Baffle</b> DEPTH <b>2790</b>
		Shoe TYPE <b>Guide</b> DEPTH <b>2790</b>

IS CASING/TUBING SECURED? <input type="checkbox"/> YES <input type="checkbox"/> NO	Head & Plugs <input type="checkbox"/> TBG <input type="checkbox"/> D.P.	SQUEEZE JOB
LIFT PRESSURE PSI CASING WEIGHT ÷ SURFACE AREA (3.14 x R <sup>2</sup> )	<input type="checkbox"/> Double SIZE	TOOL TYPE
PRESSURE LIMIT PSI BUMP PLUG TO <b>1670</b> PSI	<input checked="" type="checkbox"/> Single <input type="checkbox"/> WEIGHT	DEPTH
ROTATE RPM RECIPROCATE FT No. of Centralizers <b>8</b>	<input type="checkbox"/> Swage <input type="checkbox"/> GRADE	TAIL PIPE: SIZE DEPTH
	<input type="checkbox"/> Knockoff <input type="checkbox"/> THREAD	TUBING VOLUME Bbls
	TOP <input type="checkbox"/> OR <input type="checkbox"/> W <input type="checkbox"/> NEW <input type="checkbox"/> USED	CASING VOL. BELOW TOOL Bbls
	BOT <input type="checkbox"/> OR <input type="checkbox"/> W DEPTH	TOTAL Bbls
		ANNUAL VOLUME Bbls

TIME	PRESSURE		VOLUME PUMPED BBL		JOB SCHEDULED FOR		ARRIVE ON LOCATION		LEFT LOCATION		
	TBG OR D.P.	CASING	INCREMENT	CUM	INJECT RATE	FLUID TYPE	FLUID DENSITY	TIME: 0200	DATE: 12-4-92	TIME: 1030	DATE: 12-4-92
0001 to 2400											
								SERVICE LOG DETAIL			
								PRE-JOB SAFETY MEETING			
0833		380	20		8	H <sub>2</sub> O		START WATER AHEAD			
0836		410	20	20	8	CW100		WATER AHEAD PUMPED START CW100			
0839		340	187	40	8	CMT	12.2	CW100 PUMPED START LEAD CEMENT			
0900		340	25	227	8	CMT	14.5	LEAD CEMENT PUMPED START TAIL CMT			
0903		-		252	-			TAIL CMT PUMPED SHUT DOWN			
0905		-		252	-			WASH PUMP + LINES			
0911		-		252	-			DROP PLUG			
0911		-	69	252	7	H <sub>2</sub> O		START DISPLACEMENT			
0921		640		59	2			SLOW RATE CMT SURF			
0925		760		69	2			Bump Plug			
0925		1670		69				CHECK FLOOT - FLOOT Holding			

ORIGINAL

REMARKS

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK.	COMPOSITION OF CEMENTING SYSTEMS				SLURRY MIXED	
			BBLs	DENSITY	BBLs	DENSITY		
1.	500	2.1	65/35 + 6% H <sub>2</sub> O	1520 + 2% O <sub>3</sub>	1	12.2	187	12.2
2.	100	1.41	C + 1% O <sub>3</sub>	1% B30 + 2% H <sub>2</sub> O	1	14.5	25	14.5
3.								
4.								
5.								
6.								

BREAKDOWN FLUID TYPE	VOLUME	DENSITY	PRESSURE	MAX. 1670	MIN. 275K
<input type="checkbox"/> HESITATION SQ.	<input type="checkbox"/> RUNNING SQ.	CIRCULATION LOST	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Cement Circulated To Surf. <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	10 Bbls.
BREAKDOWN	PSI FINAL	PSI	DISPLACEMENT VOL. 69	Bbls	TYPE OF WELL <input checked="" type="checkbox"/> OIL <input type="checkbox"/> GAS
Washed Thru Perfs <input type="checkbox"/> YES <input type="checkbox"/> NO	TO	FT.	MEASURED DISPLACEMENT <input checked="" type="checkbox"/>	<input type="checkbox"/> WIRELINE	<input type="checkbox"/> STORAGE <input type="checkbox"/> INJECTION
PERFORATIONS	TO	TO	CUSTOMER REPRESENTATIVE	DS SUPERVISOR	
			DONALD BELL	GREG GREENICK	