

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

Operator: License # 5952
Name: Amoco Production Company
Address P.O. Box 800, Rm. 2444
City/State/Zip Denver, CO 80201

Purchaser: _____
Operator Contact Person: Julie Victor
Phone (303) 830-4009

Contractor: Name: Cheyenne Drilling
License: 5382

Wellsite Geologist: _____

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: N/A
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. _____
4/21/92 4/23/92 Delayed
Spud Date Date Reached TD Completion Date

API No. 15 - 055-21093-0000
County Finney
SW - SW - NE - NE Sec. 31 Twp. 24 Rge. 32 East West
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, NW, or SW (circle one)
Lease Name Burnside G.U. B Well # 2HI
Field Name Hugoton

Producing Formation Chase
Elevation: Ground 2,882' KB 2,893'
Total Depth 2,853' PBDT _____

Amount of Surface Pipe Set and Cemented at 1,073 Feet
Multiple Stage Cementing Collar Used? _____ Yes No
If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from _____
feet depth to _____ w/ _____ sx cmt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)
Chloride content 5800 ppm Fluid Volume 2140 bbls
Dewatering method used dried and filled

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 to the best of my knowledge.

Signature Julie Victor
Title Permitting Representative Date October 20, 1992
Subscribed and sworn to before me this 20 day of October, 1992
Notary Public Natalie M. Hood
Date Commission Expires December 26, 1994

K.C.C. OFFICE USE ONLY
F _____ Letter of confidentiality Attached
C _____ Wireline Log Received
C _____ Drillers Timelog Received
Distribution
 KCC _____ SWD/Rep _____ NGPA
_____ KGS _____ Plug _____ Other
(Specify)

PI

Operator Name Amoco Production Company Lease Name Burnside G.U. B Well # 2HI
 County Finney
 Sec. 31 Twp. 24 Rge. 32 East 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 Log Formation (Top), Depth and Datums Sample
 (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:

Name	Top	Datum
Herington	2,550'	+343
Krider	2,576'	+317
Winfield	2,608'	+285
Council Grove	2,840'	+ 53

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#	1,073'	Class C	500	60/35 A02
Production	7-7/8"	5-1/2"	15.5#	2,853'	Class C	600	

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose: <input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone	Depth		Type of Cement	# Sacks Used	Type and Percent Additives
	Top	Bottom			

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

TUBING RECORD Size N/A Set At _____ Packer At _____ Liner Run Yes No

Date of First, Resumed Production, SWD or Inj _____ Producing Method Flowing Pumping Gas Lift Other (Explain) _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

Disposition of Gas: Vented Sold Used on Lease Open Hole Perf. Dually Comp. Commingled Other (Specify) _____

(If vented, submit ACO-18)

METHOD OF COMPLETION Production Interval

ORIGINAL



DOWELL SCHLUMBERGER INCORPORATED

DS-496 PRINTED IN U.S.A.

TREATMENT NUMBER	4426	DATE	4/21/92
STAGE	DS	DISTRICT	03-12 UKS

WELL NAME AND NO.	LOCATION (LEGAL)	RIG NAME:
Bunnside B2 HI	Sec. 31-245-32w	Cheyenne #2
FIELD-POOL	FORMATION	WELL DATA:
Hugoton	Surface	BIT SIZE: 2 3/4
COUNTY/PARISH	STATE	CSG/Liner Size
Finney	Ks.	8 3/8
NAME	API. NO.	TOTAL DEPTH
Cheyenne Drilling		1073
AND		WEIGHT
ADDRESS		21
		1079
		GRADE
		8 Rd
		LESS FOOTAGE SHOE JOINT(S)
		43
		Disp. Capacity
		1036
		TOTAL
		105.9
SPECIAL INSTRUCTIONS		
Provide materials and services to safely cement 8 3/8 surface casing.		
IS CASING/TUBING SECURED?		
<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		
LIFT PRESSURE	PSI	CASING WEIGHT - SURFACE AREA
443		(3.14 x R ²)
PRESSURE LIMIT	PSI	BUMP PLUG TO
300		PSI
ROTATE	RPM	RECIPROCATATE
		FT
		No. of Centralizers
		3

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	WEIGHT		DEPTH	
<input type="checkbox"/> Swage	GRADE		TAIL PIPE: SIZE	DEPTH
<input type="checkbox"/> Knockoff	THREAD		TUBING VOLUME	Bbbs
TOP	<input checked="" type="checkbox"/> R <input type="checkbox"/> W	<input type="checkbox"/> NEW <input type="checkbox"/> USED	CASING VOL. BELOW TOOL	Bbbs
BOT	<input type="checkbox"/> R <input type="checkbox"/> W	DEPTH	TOTAL	Bbbs
			ANNUAL VOLUME	Bbbs

TIME	PRESSURE	VOLUME PUMPED	JOB SCHEDULED FOR	ARRIVE ON LOCATION	LEFT LOCATION
0001 to 2400	TBG OR D.P. CASING	INCREMENT CUM	TIME 2300 DATE 4/21/92	TIME 2300 DATE 4/21/92	TIME 0130 DATE 4/22/92
03:01	1800 -	1 -	INJECT RATE 1	FLUID TYPE H2O	FLUID DENSITY 8.33
03:02	1600	-	5.9	H2O	8.33
03:05	1600	131	5.9	Cmt	12.2
03:26	190	35	5.9	Cmt	14.8
03:32	0	0	0	-	-
03:34	130	69.9	5.9	H2O	8.33
03:44	290	60	2.0		
03:47	610	69.0	1.8		
03:50	610	0	0		

Float	TYPE	Bottle Plate	TYPE	
	DEPTH		DEPTH	
SHOE	TYPE	Tx. Pattern	TYPE	
	DEPTH		DEPTH	

TIME	PRESSURE		VOLUME PUMPED		INJECT RATE	FLUID TYPE	FLUID DENSITY	SERVICE LOG DETAIL
	TBG OR D.P.	CASING	INCREMENT	CUM				
03:01	1800	-	1	-	1	H2O	8.33	PRE-JOB SAFETY MEETING Ps: Test Lines
03:02	1600				5.9	H2O	8.33	Start H2O Ahead
03:05	1600		131		5.9	Cmt	12.2	Start Lead Cmt.
03:26	190		35		5.9	Cmt	14.8	Start Tail Cmt.
03:32	0		0		0	-	-	Shutdown Drop Plug
03:34	130		69.9		5.9	H2O	8.33	Start Displacement
03:44	290		60		2.0			Slow Rate
03:47	610		69.0		1.8			Bump Plug
03:50	610		0		0			End Job

REMARKS final ps: Bels Bump Plug 340

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS		SLURRY MIXED	
			BBLs	DENSITY		
1.	350	2.1	65	12.2	131	12.2
2.	150	1.32	35	14.8	35.2	14.8
3.						
4.	500					
5.						
6.						

BREAKDOWN FLUID TYPE	VOLUME	DENSITY	PRESSURE	MAX.	MIN:
<input type="checkbox"/> HESITATION SQ.	<input type="checkbox"/> RUNNING SQ.	CIRCULATION LOST	<input type="checkbox"/> YES <input type="checkbox"/> NO	Cement Circulated To Surf. <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	55 Bbbs
BREAKDOWN	PSI	FINAL	PSI	DISPLACEMENT VOL.	65.9 Bbbs
Washed Thru Perfs <input type="checkbox"/> YES <input type="checkbox"/> NO	TO	FT.	MEASURED DISPLACEMENT <input checked="" type="checkbox"/>	<input type="checkbox"/> WIRELINE	
PERFORATIONS	TO	TO	CUSTOMER REPRESENTATIVE	DS	SUPERVISOR
			Jack Pepper		Greg Black

DOWELL SCHLUMBERGER INCORPORATED

P.O. BOX 4378 HOUSTON, TEXAS 77210

SPECIAL HANDLING

ORIGINAL

OILFIELD SERVICES
INDUSTRIAL SERVICES

DSI SERVICE ORDER
RECEIPT AND INVOICE NO.
4426

DSI SERVICE LOCATION NAME AND NUMBER
JKS 03-12

CUSTOMER NUMBER: _____ CUSTOMER P.O. NUMBER: _____
TYPE SERVICE CODE: **(277)** BUSINESS CODES: _____
WORKOVER W
NEW WELL N
OTHER O API OR IC NUMBER: _____

CUSTOMER'S NAME

Cheyenne Drilling

ADDRESS

CITY, STATE AND ZIP CODE

DSI will furnish and Customer shall purchase materials and services required in the performance of the following SERVICE INSTRUCTIONS or DSI INDUSTRIAL SERVICE CONTRACT NO. _____ in accordance with the terms and conditions as printed on the reverse side of this form.

IMPORTANT
SEE OTHER SIDE FOR TERMS & CONDITIONS
ARRIVE MO. DAY YR. TIME
LOCATION **4 21 92 2300**

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. DAY YR. TIME
4 22 92 0350

SIGNATURE OF CUSTOMER OR AUTHORIZED REPRESENTATIVE

John Kopper

STATE **Ks.** CODE _____ COUNTY / PARISH **Finnay** CODE _____ CITY _____

WELL NAME AND NUMBER / JOB SITE
Burnside B2 HI

LOCATION AND POOL / PLANT ADDRESS
Sec. 31-24s-32w

SHIPPED VIA
DS

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
	Pump Trk. Chg.	Eg.	1	705.00	705.00
	Service Chg.	Flt.	548	1.15	630.20
	Delivery Chg.	T.M.	356	.84	298.65
	Mileage Chg.	Mi.	15	2.65	39.75
	PACR	Eg.	1	135.00	135.00
	Cnt Head Rental	Eg.	1	60.00	N/C
	Class C Cnt.	Sk.	378	7.75	2929.50
	L to Poz III	Sk.	122	3.83	467.26
	D-20 Gel	Lbs.	1828	.16	292.48
	SI CaCl ₂	Lbs.	892	.34	303.28
	D-29 Cellophane Flake	Lbs.	126	1.53	192.78
	8 3/4 Bottle Plate	Eg.	1	74.00	74.00
	8 3/4 Centralizers	Eg.	3	30.00	90.00
	8 3/4 Top Rubber Plug	Eg.	1	95.00	95.00
	Thread Lock Kit	Eg.	1	23.50	23.50

RECEIVED
DOWELL SCHLUMBERGER
RECEIPT

500

Field Estimate #6276.40 SUB TOTAL

LICENSE/REIMBURSEMENT FEE _____
LICENSE/REIMBURSEMENT FEE _____
REMARKS: *Thanks for using DS!*
STATE _____ % TAX ON \$ _____
COUNTY _____ % TAX ON \$ _____
CITY _____ % TAX ON \$ _____
SIGNATURE OF DSI REPRESENTATIVE: *B. W. Ridgway* 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 1½% 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 assumes 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.

SERVICE ORDER ORIGINAL

DS #/CA	PERSON TAKING CALL D G Franco	DATE/TIME 4/21	DS LOCATION 01455es 03-12	TREATMENT NUMBER - 4426
CUSTOMER	ORDERED BY Jack Pepper	TELEPHONE	MOBILE	
TYPE JOB Surf	JOB DATE 4/21	TIME ON LOC 2300	PUMP	CUSTOMER REP ON LOCATION
TELEPHONE	MOBILE			
WELL NAME & NUMBER Burnside BATH	REWORK NEW	LOCATION Se. 31-245-32W	POOL/FIELD	COUNTY/PARISH Finney Co
CONTRACTOR ON SITE Cheyenne #2	DS SALES REPRESENTATIVE TV	CUSTOMER ORDER NUMBER	STATE KANSAS	

TUBING/DP	SIZE	DEPTH MD / TVD	WT	THREAD	TREATMENT VIA: CSG	ANN:	PACKER/RETAINER	DEPTH:
CASING	8 5/8				SERVICE INSTRUCTIONS:			
OPEN HOLE	12 1/4				1 - 8 5/8 Top Plug			
					1 - 8 5/8 Baffle Plate			
					3 - 8 5/8 Centralizer			
					1 - Thread Lock Kit			

PERFORATED INTERVALS								FORMATION	
TOP	TO	BOTTOM	NO. OF HOLES	TOP	TO	BOTTOM	NO. OF HOLES		
	TO				TO			REQUIRED RATE/PRESS.	
	TO				TO			HYDRAULIC HORSEPOWER ORDERED:	
	TO				TO			MAX PSI ALLOWABLE:	
	TO				TO				

DIAMETER OF PERFORATIONS = _____

WELLHEAD CONN: **8 5/8 Head manifold & Swoodge**

SPECIAL INSTRUCTIONS/EQUIPMENT _____

SYSTEM DESCRIPTION:

System 1 **350 SKS 6 5/8 C/Poz + 6% D-20 + 2% SI + 1/4 #/SK**
12.2 PPG 2.1 F³/FT 11.5 gal/SK

System 2 **150 SKS CLASS C + 2% C! + 1/4 #/SK D-29**

System 3 **8 PPG 1.32 F³/FT 6.32 gal/SK**

System 4 _____

Additional Materials: _____

Directions: **Intersection New Hwy 83 & Old Hwy 83 South of Garden City - 1/2 mi East on New Hwy 83 - South Thru gate to Lac**

CEMENTING SERVICE REPORT

ORIGINAL **DS**
DOWELL SCHLUMBERGER INCORPORATED

TREATMENT NUMBER **4432** DATE **4/23/92**
STAGE **DS** DISTRICT **JKS**

DS-99 PRINTED IN U.S.A.

WELL NAME AND NO. **Burnside B2HT** LOCATION (LEGAL) **Sec. 31-245-32w**
FIELD-POOL **Hugoton** FORMATION **Chase**
COUNTY/PARTION **Finney** STATE **Ks.** API NO

NAME **Cheyenne Drilling**
ADDRESS
ZIP CODE

RIG NAME **Cheyenne #2**
WELL DATA
BIT SIZE **7 7/8** CSQ/Liner Size **5 1/2**
TOTAL DEPTH **2856** WEIGHT **15.5**
ROT CABLE FOOTAGE **2856**
MUD TYPE GRADE
 BHST
 BHCT THREAD **9 Rd.**
MUD DENSITY LESS FOOTAGE SHOE JOINT(S) **4.4** TOTAL
MUD VISC Disp Capacity **2812**

SPECIAL INSTRUCTIONS
Provide materials and services to set cement 5 1/2 production string.

NOTE: Include Footage From Ground Level To Head In Dip Capacity

TYPE	Auto Tilt Invert	TYPE	
DEPTH	2812	DEPTH	
TYPE	Cnt Nose Guide	TYPE	
DEPTH	2856	DEPTH	

Head & Plugs	<input type="checkbox"/> TBG	<input type="checkbox"/> DP	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	Bbls	
TOP <input type="checkbox"/> W	<input type="checkbox"/> NEW <input type="checkbox"/> USED	CASING VOL. BELOW TOOL	Bbls	
BOT <input type="checkbox"/> W	DEPTH	TOTAL	Bbls	
		ANNUAL VOLUME	Bbls	

IS CASING/TUBING SECURED? YES NO
LIFT PRESSURE **1864** PSI CASING WEIGHT - SURFACE AREA (3.14 x R²)
PRESSURE LIMIT **1000** PSI BUMP PLUG TO **1330** PSI
ROTATE **10** RPM RECIPROCATE **10** FT No of Centralizers **5**

JOB SCHEDULED FOR TIME **2300** DATE **4/23/92** ARRIVE ON LOCATION TIME **2300** DATE **4/23/92** LEFT LOCATION TIME **0030** DATE **4/24/92**

TIME	PRESSURE		VOLUME PUMPED BBL		INJECT RATE	FLUID TYPE	FLUID DENSITY	SERVICE LOG DETAIL
	TBG OR DP	CASING	INCREMENT	CUM				
0001 to 2400								
04:05	1800	NA	1	-	1	11.0	8.33	PRE-JOB SAFETY MEETING Ps: Test lines
04:08	2000	300	20	-	7.0	H ₂ O	8.33	H ₂ O Ahead
04:11		290	168	-	7.2	CMT	12.2	Start Lead Cmt.
04:25		270	35	-	7.2	Cmt	14.8	Start Tail Cmt.
04:40		0	-	-	0	-	-	Shutdown Wash Run p/lines (Drop Plug)
04:46	NA	240	66.9	-	6.3	H ₂ O	8.33	Start Displacement
04:50		810	56	-	2.1			Lower Rate
04:59		930	106	-	1.9			Bump Plug
05:00	0	0	0	-	0			Release Ps:
05:00								End Job
04:45								Rate Ps: Lead 7.4 840 Tail 7.2 230 Displ. 5.5 55

REMARKS **Final 200 gals bumping plug 810**

SYSTEM CODE	NO OF SACKS	YIELD CU FT/SK	COMPOSITION OF CEMENTING SYSTEMS		SLURRY MIXED	
					BBLs	DENSITY
1	450	2.1	65% Spoz + 35% A-20 + 1/4 #5K A-29		168	12.2
2	150	1.32	Class C + 1/4 #5K A-29		35	11.8
3						
4						
5						
6						

BREAKDOWN FLUID TYPE VOLUME DENSITY PRESSURE
 HESITATION SQ RUNNING SQ CIRCULATION LOST YES NO Cement Circulated To Surf YES NO **35** Bbls
 BREAKDOWN PSI FINAL PSI DISPLACEMENT VOL **66.9** Bbls TYPE OF WELL OIL STORAGE BRINE WATER
 WASHED THRU PERLY YES NO TO FT MEASURED DISPLACEMENT WIRELINE GAS INJECTION WILDCAT
 PERFORATIONS TO TO CUSTOMER REPRESENTATIVE **Jack Pepper** DS SUPERVISOR **Gies Black**

DOWELL SCHLUMBERGER INCORPORATED

P.O. BOX 4378 HOUSTON, TEXAS 77210

SPECIAL HANDLING

OILFIELD SERVICES
INDUSTRIAL SERVICES

ORIGINAL

DSI SERVICE ORDER
RECEIPT AND INVOICE NO.
4/4/32

DSI SERVICE LOCATION NAME AND NUMBER
03-12 URS

CUSTOMER NUMBER CUSTOMER P.O. NUMBER TYPE SERVICE CODE BUSINESS CODES
285

CUSTOMER'S NAME: Cheyenne Drilling
ADDRESS:
CITY, STATE AND ZIP CODE:

WORKOVER NEW WELL OTHER W N APL OR IC NUMBER

ARRIVE LOCATION MO. DAY YR. TIME
4 23 92 2300

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. DAY YR. TIME
4 24 92 000

SIGNATURE OF CUSTOMER OR AUTHORIZED REPRESENTATIVE

STATE: KS CODE: COUNTY / PARISH: Finney CODE: CITY:

WELL NAME AND NUMBER / JOB SITE: Burnside B 2HI LOCATION AND POOL / PLANT ADDRESS: Sec. 31-245-32 w Houston

SHIPPED VIA: DS

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
102871-030	Pump Truck Charge	Ec.	1	1165.00	1165.00
49102-000	Delivery Charge	Tm	418	.84	351.12
49100-000	Service Charge	Ft ³	639	1.15	735.00
59697-000	Mileage	Mi.	15	2.65	39.75
59697-000	PACR	Ec.	1	135.00	135.00
48600-000	Cmt. Head Rental	Ec.	1	60.00	N/C
40003-000	Class C Cmt	SKs.	443	7.75	3433.25
45009-000	Lite Poz III	SKs.	157	3.83	601.31
45014-050	D-20 G-1	lbs.	2350	.16	376.00
44100-025	D-29 Cellulose Flake	lbs.	152	1.53	232.56
50101-054	5 1/2 Cmt. Nose Guide Shoe	Ec.	1	135.00	135.00
53003-054	5 1/2 Orifac Mill Insert	Ec.	1	220.00	220.00
56015-054	5 1/2 Centralizers	Eq.	5	57.00	285.00
56705-054	5 1/2 Tap Plug	Ec.	1	105.00	105.00
57199-001	Thread Lock K. +	Ec.	1	23.50	23.50
				4153.87	

Field Estimate # 7837.49

SUB TOTAL

LICENSE/REIMBURSEMENT FEE

REMARKS: Thanks for using DS!
STATE: COUNTY: CITY: % TAX ON \$
SIGNATURE OF DSI REPRESENTATIVE: [Signature] 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 1½% 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 whatsoever 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 assumes 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 customer's expense.



SERVICE ORDER

ORIGINAL

DS-926-A
CUSTOMER: **Cheyenne Drilling**

PERSON TAKING CALL: **DG Francisco** DATE/TIME: **4/23** DS LOCATION: **Ulysses** TREATMENT NUMBER: **03-12-4432**

ORDERED BY: **JACK PEPPER** TELEPHONE: **272-1602**

TYPE JOB: **LS** JOB DATE: **4/23** TIME: ON LOC PUMP CUSTOMER REP ON LOCATION TELEPHONE MOBILE

WELL NAME & NUMBER: **Burnside B2H1 (NEW)** LOCATION: **Sec 31-24S-32W** POOL/FIELD: COUNTY/PARISH: **Finney Co.**

CONTRACTOR ON SITE: **Cheyenne #2** DS SALES REPRESENTATIVE: **TY** CUSTOMER ORDER NUMBER: STATE: **KANSAS**

TUBING/DP:	SIZE	DEPTH MD / TVD	WT	THREAD	TREATMENT VIA:	PACKER/RETAINER
CASING:	5 1/2		14 #	8Rd	CSG ANN:	DEPTH:
LINER:					SERVICE INSTRUCTIONS:	
OPEN HOLE:	7 3/8		BHST	BHCT	1- 5 1/2 Cement Nose Guide Shoe 1- 5 1/2 orifice Fill Insert	

PERFORATED INTERVALS								FORMATION:	
TOP	TO	BOTTOM	NO. OF HOLES	TOP	TO	BOTTOM	NO. OF HOLES		
	TO				TO			Chase	5- 5 1/2 Centralizers
	TO				TO			REQUIRED RATE/PRESS.	1- 5 1/2 TOP Plug
	TO				TO			4-6BPM	1 Thread Lock Kit
	TO				TO			HYDRAULIC HORSEPOWER ORDERED:	
	TO				TO			MAX PSI ALLOWABLE:	

DIAMETER OF PERFORATIONS =
WELLHEAD CONN: **5 1/2 Head Manifold & S wedge**

SPECIAL INSTRUCTIONS/EQUIPMENT:

SYSTEM DESCRIPTION:

Lead System 1 **450 SKS 35/65 70% + 6% D-20 + 1/4 #/SK D-29**
12.2 PPG 2.1 CRT/FT 11.5 gal/sk

Tail System 2 **150 SKS CLASS C + 1/4 #/SK D-29**

System 3 **14.8 PPG 1.32 CRT/FT 6.32 gal/sk**

System 4

Additional Materials:

Directions: **Garden City New Hwy 83 & Old Hwy 83 south of Garden City - 1/2 mi EAST - ON New Hwy 83 - South Thru Gate To Loc.**
(STAY ON Lease Rd signs AT ENTRANCE TO Loc Rd)