

Correction

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: Chèyenne 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 PSTD

Commingled Docket No. _____

Dual Completion Docket No. _____

Other (SWD or Inj?) Docket No. _____

8/13/92 8/15/92 1/18/93

Spud Date 8/13/92 Date Reached TD 8/15/92 Completion Date 1/18/93

API No. 15 - 187-20642-0000

County Stanton

NW - NW - SE - NE Sec. 3 Twp. 27 Rge. 39 East West

3830 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 R.B. Fegan G.U. A Well # 6HI

Field Name Hugoton

Producing Formation Chase

Elevation: Ground 3206' KB 3217'

Total Depth 2567' PSTD _____

Amount of Surface Pipe Set and Cemented at 610 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set _____ Feet

If Alternate li completion, cement circulated from _____

feet depth to _____ w/ _____ sx cmt.

Drilling Fluid Management Plan 1-2877
(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. _____ EW

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 1/22/93

Subscribed and sworn to before me this 22 day of January, 1993

Notary Public Natalie M. Wood

Date Commission Expires December 26, 1994

RECEIVED
K.C.C. OFFICE USE ONLY
F Letter of confidentiality Attached
C Wireline Log Received
C Drillers Timelog Received
JAN 26 1993
DISTRIBUTION
KCC SWD/Rep _____
KGS Plug _____ Other _____
(Specify)

21

Operator Name Amoco Production Company

Lease Name R.B. Fegan G.U. A

Well # 6HI

Sec. 3 Twp. 27 Rge. 39 East West

County Stanton

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.) Yes No

Samples Sent to Geological Survey Yes No

Cores Taken Yes No

Electric Log Run (Submit Copy.) Yes No

List All E. Logs Run:

Log Formation (Top), Depth and Datums Sample

Name	Top	Datum
Chase	2348'	869'
Herrington	2395'	822'
Krider	2410'	807'
Winfield	2453'	764'
Towanda	2510'	707'

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#	610'	Class C	345	
Production	7-7/8"	5-1/2"	15.5#	2,567'	Class C	630	

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose: — Perforate — Protect Casing — Plug Back TD — 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
				Frac with 56,000 gal. gelling agent and 246,700# 10/20 Brady sand	

TUBING RECORD		Size	Set At	Packer At	Liner Run	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First Resumed Production, SWD or Inj						
Producing Method						
Estimated Production Per 24 Hours	Oil Bbls.	Gas 1500 Mcf	Water Bbls.	Gas-Oil Ratio	Gravity	

Disposition of Gas:

METHOD OF COMPLETION

Production Interval

Vented Sold Used on Lease Open Hole Perf. Dually Comp. Commingled

(If vented, submit ACO-18) Other (Specify) slotted casing

2306-2567'

ORIGINAL

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

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

Contractor: Name: Cheyenne Drilling
License: 5382

Wellsite Geologist: _____

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 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 PBTD

Commingled Docket No. _____

Dual Completion Docket No. _____

Other (SWD or Inj?) Docket No. _____

8/13/92 8/15/92 Delayed

Spud Date 8/13/92 Date Reached TD 8/15/92 Completion Date Delayed

API No. 15 - 187-20642-0000

County Stanton

NW - NW - SE - NE Sec. 3 Twp. 27 Rge. 39 East West

3830 Feet from (S)N (circle one) Line of Section

1250 Feet from (E)W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
NE, (E)E NW, or SW (circle one)

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Total Depth 2567' PBTD _____

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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 but 1 1-2-93 RB
(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

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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 1/5/93

Subscribed and sworn to before me this 5 day of January, 1993

Notary Public Natalie M. Wood

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)

Operator Name Amoco Production Company

Lease Name R.B. Fegan G.U. A

Well # 6HI

Sec. 3 Twp. 27 Rge. 39 East West

County Stanton

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.) Yes No

Samples Sent to Geological Survey Yes No

Cores Taken Yes No

Electric Log Run (Submit Copy.) Yes No

List All E. Logs Run:

Log Formation (Top), Depth and Datums Sample

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Production	7-7/8"	5-1/2"	15.5#	2,567'	Class C	630	

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 - Bridge Plugs Set/Type		Acid, Fracture, Shot, Cement Squeeze Record	
	Specify Footage of Each Interval Perforated		(Amount and Kind of Material Used)	Depth
			Frac with 56,000 gal. gelling agent and 246,700# 10/20 Brady sand.	2306-2567'

TUBING RECORD	Size	Set At	Packer At	Liner Run	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
N/A								
Date of First, Resumed Production, SWD or Inj	Producing Method		<input type="checkbox"/> Flowing	<input 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

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

2306-2567'

ORIGINAL

DRILLERS LOG

AMOCO PRODUCTION COMPANY
R.B. FEGAN "A" NO. 6 HI
SECTION 3-T275-R39W
STANTON COUNTY, KANSAS

COMMENCED: 08-13-92
COMPLETED: 08-15-92

SURFACE CASING: 601' OF 8 5/8"
CMTD W/195 SX LT "C", 2% C.C.,
1/4#/SX FLO-CELE; TAILED IN W/
150 SX "C", 2% C.C., 1/4#/SX FLO-CELE

FORMATION	DEPTH
SURFACE HOLE	0- 610
RED BED & SAND	610-1284
SAND, SHALE & LIME	1284-1797
RED BED & SHALE	1797-2523
CHASE	2523-2567 RTD

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

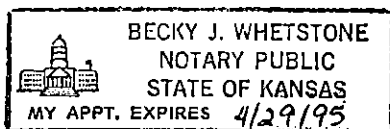
CHEYENNE DRILLING, INC.



A.J. JACQUES

STATE OF KANSAS :ss:

SUBSCRIBED AND SWORN TO BEFORE ME THIS 18TH DAY OF AUGUST, 1992.



Becky J. Whetstone

BECKY J. WHETSTONE, NOTARY PUBLIC

CEMENTING SERVICE REPORT



DOWELL SCHLUMBERGER INCORPORATED

TREATMENT NUMBER 03-12-4647 DATE 8-13-92
 STAGE DS DISTRICT 6435ES KS

DS-496 PRINTED IN U.S.A.

WELL NAME AND NO. R.B. FERRAND G.U. "d" 6435 LOCATION (LEGAL) SEC 3-275-39W RIG NAME: CHEYENNE #2

FIELD-POOL FORMATION BIT SIZE 12 1/4 CSG/Liner Size 8 5/8

COUNTY/PARISH STAUNTON STATE KS APL. NO. TOTAL 36.12

NAME Cheyenne Drilling ORIGINAL MUD DENSITY 42.92 MUD VISC. 567.08

ADDRESS ZIP CODE

SPECIAL INSTRUCTIONS

NOTE: Include Footage From Ground Level To Head In Disp. Capacity

Float TYPE RAFFLE PLUG DEPTH 567.08

SHOE TYPE DEPTH

Head & Plugs Double Single Swage Knockoff

TBG D.P. SQUEEZE JOB

TOOL TYPE DEPTH

TAIL PIPE: SIZE DEPTH

TUBING VOLUME Bbls

CASING WEIGHT + SURFACE AREA (3.14 x R²)

CASING VOL. BELOW TOOL Bbls

TOTAL Bbls

ANNUAL VOLUME Bbls

IS CASING/TUBING SECURED? YES NO

LIFT PRESSURE 250 PSI

PRESSURE LIMIT PSI BUMP PLUG TO PSI

ROTATE RPM RECIPROCATE FT No. of Centralizers

TIME	PRESSURE		VOLUME PUMPED bbl		JOB SCHEDULED FOR			ARRIVE ON LOCATION		LEFT LOCATION	
	TBG OR D.P.	CASING	INCREMENT	CUM	TIME	DATE	TIME	DATE	TIME	DATE	
0001 to 2400											
1716	1450										
1717		110	10		5	H ₂ O					
1720		80	71	10	5	Cut	12.2				
1736		80	35	81	5	Cut	14.8				
1743		-		116	-						
1745				116	-						
1745		0	36	116	6						
1749		100		10	5						
1751		160		26	2						
1756		200									
1756		500									

PRE-JOB SAFETY MEETING

PRESSURE TEST LINGS

START WATER AHEAD

WATER AHEAD PUMPED START LEAD CUT

LEAD CUT PUMPED START WILLCUT

TAIL CUT PUMPED STOPPED

DEEP TOP PLUG

START DEPLACEMENT

CUT TO SURFACE

SLOW RATE

BUMP TOP PLUG

CHECK FLOAT - FLOAT HOLDING

REMARKS

SYSTEM CODE	NO. OF SACKS	YIELD CU FT/SK	COMPOSITION OF CEMENTING SYSTEMS				SLURRY MIXED	
							BBLs	DENSITY
1.	195	2.1	65/35 C/P02	+ 6% D20	+ 2% S.	+ 1/4" / 3K D29	71	12.2
2.	150	1.32	C + 2% Calc	+ 1/4" / 3K D29			35	14.8
3.								
4.								
5.								
6.								

BREAKDOWN FLUID TYPE HESITATION SQ. RUNNING SQ. VOLUME CIRCULATION LOST YES NO

PRESSURE MAX. 550 MIN. Cement Circulated To Surf. YES NO 26 Bbls

BREAKDOWN PSI FINAL PSI DISPLACEMENT VOL. 36 Bbls

Washed Thru Perfs YES NO TO FT. MEASURED DISPLACEMENT WIRELINE

PERFORATIONS TO TO TO TO

CUSTOMER REPRESENTATIVE JACK JEPPEL

DS SUPERVISOR GREG GREENWICK

DOWELL SCHLUMBERGER INCORPORATED

P.O. BOX 4378 HOUSTON, TEXAS 77210

D.S.I. REPRESENTATIVE

OILFIELD SERVICES
INDUSTRIAL SERVICES

DSI SERVICE ORDER
RECEIPT AND INVOICE NO.

DSI SERVICE LOCATION NAME AND NUMBER
Wichita KS 03-12

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

CUSTOMER'S NAME
Automatic Drilling

ORIGINAL

WORKOVER W API OR IC NUMBER
NEW WELL N
OTHER O

ADDRESS
CITY, STATE AND ZIP CODE

ARRIVE LOCATION MO. DAY YR. TIME
8 13 72 11:00

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.

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
18 13 72 12:00

STATE CODE COUNTY / PARISH CODE CITY
Kansas Sedgewick

SIGNATURE OF CUSTOMER OR AUTHORIZED REPRESENTATIVE
[Signature]

WELL NAME (AND NUMBER / JOB SITE) LOCATION AND POOL / PLANT ADDRESS SHIPPED VIA
E.B. ... Sedgewick 3-275-3911

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
059200-002	OLIERE CHRY	M	10	2.10	21.00
02271-010	PUMP CHRY	EA	1	705.00	705.00
047112-000	Welding 32 3/8" x 1/2" dia	TW	164	.84	137.76
047106-000	Welding 2 1/2" dia	EA	325	1.15	431.25
040713-000	CLAS	EA	277	7.73	2141.21
045008-000	Lock 1/2" B	EA	65	3.83	261.95
045011-000	1/2" 20 ROPS	EA	1015	.16	162.80
041013-000	1/2" 21 CEMENT PLATE FOUN	EA	87	1.53	133.11
047005-100	Welding 1/2" dia	EA	1021	.20	204.20
056712-000	TOP SHOT	EA	1	95.00	95.00
05711-100	CENTRALIZER	EA	3	30.00	90.00
057411-001	Thread 40' x 1/2"	EA	1	23.50	23.50
056713-000	WHEEL PLATE	EA	1	135.00	135.00
	ATC	EA	1	135.00	135.00

Field Estimate # 4477 ⁴⁴⁷⁷ LESS 4516 # 2473 53. SUB TOTAL RECEIVED

LICENSE/REIMBURSEMENT FEE
REMARKS: *Thank you for being DSI*
STATE % TAX ON \$
COUNTY % TAX ON \$
CITY % TAX ON \$
SIGNATURE OF DSI REPRESENTATIVE
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-938-A	PERSON TAKING CALL	DATE/TIME	DS LOCATION	TREATMENT NUMBER
CUSTOMER	Cheyanna Drilling	ORDERED BY	ULYSSES, KS	03-12-4647
TYPE JOB	Job DATE	TIME	ON LOG	PUMP
Scarf	B	92		
WELL NAME & NUMBER	REWORK	LOCATION	POOL/FIELD	COUNTY/PARISH
R.B. Fegan G.U. A4HI	NEW	Sec 3-27S-39W	Hugoton	Stanton
CONTRACTOR ON SITE	DS SALES REPRESENTATIVE	CUSTOMER ORDER NUMBER	STATE	
			KS	

TUBING/DP:	SIZE	DEPTH MD / TVD	WT	THREAD	TREATMENT VIA:	ANN:	PACKER/RETAINER	DEPTH:
CASING:	8 5/8	± 650	24	8	CSG			
LINER:					SERVICE INSTRUCTIONS:			
OPEN HOLE:			BHST	BHCT	- Top Plug - Baffle Plate - 3 Centralizers - thread lock			
PERFORATED INTERVALS				FORMATION:				
TOP	TO	BOTTOM	NO. OF HOLES	TOP	TO	BOTTOM	NO. OF HOLES	REQUIRED RATE/PRESS.
	TO				TO			
	TO				TO			
	TO				TO			
	TO				TO			
DIAMETER OF PERFORATIONS =				MAX PSI ALLOWABLE:				
WELLHEAD CONN:								
8 5/8 head man. fold, surge								
SPECIAL INSTRUCTIONS/EQUIPMENT:								

SYSTEM DESCRIPTION:

System 1 195 35:65 (PO2:C) + 6% D2O + 2% SI + 1/4 #5k D29
12.2 2.1 11.5

System 2 150 sx Class C + 2% SI + 1/4 #5k D29

System 3 14.8 1.32 6.32

System 4 _____

Additional Materials: _____

Directions: UKS - 11W - 10 1/2 N - 1/4 W to #2 well - 1/2 N into

CEMENTING SERVICE REPORT



TREATMENT NUMBER 03-12-4648 DATE 8-15-92
 STAGE DS DISTRICT 0143583 KS

DS-496 PRINTED IN U.S.A.

DOWELL SCHLUMBERGER INCORPORATED

WELL NAME AND NO. R.B. FERRAN GUL'D Wt. SEC 3-275-39W
 LOCATION (LEGAL) FORMATION
 FIELD-POOL HUGOTON
 COUNTY/PARISH STATE Kansas API. NO.
 ADDRESS STAMPA
 NAME CHEYENNE DRILLING
 RIG NAME Cheyenne #2
 WELL DATA: BIT SIZE 7 7/8 CSG/Liner Size 5 1/2
 TOTAL DEPTH 1555 WEIGHT 15.5
 ROT CABLE FOOTAGE 2570
 MUD TYPE GRADE
 BHST BHCT THREAD 2 1/2
 MUD DENSITY 9.0 LESS FOOTAGE SHOE JOINT(S) 7 LOGS
 MUD VISC. Disp. Capacity 2369.67
 TOTAL 54.75
 NOTE: Include Footage From Ground Level To Head In Disp. Capacity

SPECIAL INSTRUCTIONS ORIGINAL
 IS CASING/TUBING SECURED? YES NO
 LIFT PRESSURE 1677 PSI CASING WEIGHT + SURFACE AREA (3.14 x R²)
 PRESSURE LIMIT 1470 PSI BUMP PLUG TO PSI
 ROTATE RPM RECIPROCATE FT No. of Centralizers 5
 HEAD & PLUGS TBG D.P. SQUEEZE JOB
 Double SIZE TOOL TYPE
 Single WEIGHT DEPTH
 Swage GRADE TAIL PIPE: SIZE DEPTH
 Knockoff THREAD TUBING VOLUME Bbls
 TOP OR NEW OR USED CASING VOL. BELOW TOOL Bbls
 BOT OR 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	TIME	DATE	TIME	DATE	TIME	DATE	
0001 to 2400											
0555	2100										
0556		0									
0601		1100									
0601		280	20		7	160	8.32				
0604		340	198	20	7	160	12.2				
0631		230	24	218	7	160	14.2				
0644		-		242	-						
0645		-		242	-						
0648		-		242	-						
0648		100	55	242	5		7160				
0655		410		35	5						
0658		610		50	2						
0700		650		55	2						
0701		1470		55	-						

PRE-JOB SAFETY MEETING
 PRESSURE TEST LINE
 SET PACKER
 PACKER SET
 START WATER SHEAL
 WATER SHEAL HOPPED START LEAD CMT
 LEAD CMT HOPPED START TAIL CMT
 TAIL CMT HOPPED SHUTDN
 WASH HMD+LINES
 DROP TOP PLUG
 START DISPLACEMENT
 CMT SURFACE
 SLOW 2BOM
 BUMP PLUG
 CHECK FLOW - FLOW HOLDING
 Avg Mix Rate 7 Wdg PSI 283 PSI
 Avg Dns. Rate 5 Wdg PSI 573 PSI

REMARKS

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS				SLURRY MIXED	
							BBLs	DENSITY
1.	530	2.1	65/35 C/P02 + 6% D20 + 1/4 #/SK 029				198	12.2
2.	100	1.32	C + 1/4 #/SK 029				24	14.2
3.								
4.								
5.								
6.								

BREAKDOWN FLUID TYPE VOLUME DENSITY PRESSURE MAX. MIN: 53 PSI
 HESITATION SQ. RUNNING SQ. CIRCULATION LOST YES NO Cement Circulated To Surf. YES NO 20 Bbls.
 BREAKDOWN PSI FINAL PSI DISPLACEMENT VOL. 55 Bbls TYPE OF WELL OIL STORAGE BRINE WATER
 Washed Thru Perfs YES NO TO FT. MEASURED DISPLACEMENT X WIRELINE GAS INJECTION WILDCAT
 PERFORATIONS TO TO CUSTOMER REPRESENTATIVE JACK PETER DS SUPERVISOR CREGG GEMINK

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 1/4% 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.

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.

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.

(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.