

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. 2118
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 SLOW Temp.Abd.
 Gas ENHR SIGW
Dry Other (Core,WSW, Expl., Cathodic, etc.)

Workover/Re-entry: old well info as follows:

Operator: _____
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. _____
4/6/92 4/9/92 5/19/93
Spud Date Date Reached TD Completion Date

API No. 15 - 055-21065-0000 ORIGINAL
County Finney
SW - SE - NW - NE Sec. 25 Twp. 25 Rge. 33 East West
4030 Feet from SW (circle one) Line of Section
1450 Feet from SE (circle one) Line of Section

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

Lease Name Murphy G.U. Well # 2HI
Field Name Hugoton

Producing Formation Chase

Elevation: Ground 2910' KB 2921'

Total Depth 2999' PSTD _____

Amount of Surface Pipe Set and Cemented at 1000 Feet

Multple 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 6-7-93
(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 PERMITTING 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 May 25, 1993

Subscribed and sworn to before me this 25 day of May, 1993

Notary Public Margaret 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
RECEIVED
MAY 27 1993
Distribution
 KCC SWD/Rep NGPA
 KGS Plug CONSERVATION DIVISION
Wichita, Kansas

Operator Name Amoco Production Company Lease Name Murphy G.U. Well # 2HI
 County Finney
 Sec. 25 Twp. 25 Rge. 33 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 (Attach Additional Sheets.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datums	<input checked="" type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Name	Top	Datum
Electric Log Run (Submit Copy.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Herington	2,568'	+353'
List All E. Logs Run:		Krider	2,592'	+329'
		Winfield	2,628'	+293'
		Towanda	2,690'	+231'
		Council Grove	2,856'	+ 65'

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#	1,000'	Class C	475	
Production	7-7/8"	5-1/2"	15.5#	2,999'	Class C	600	

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
	4	2565-2590'; 2590-2610'; 2625-2648'; 2681-2758'		Acidize with 3225 gal. 28% HCL.	
			Frac with 28,000# 10/20 Colo.		2565-2648'
			Silica and 27,342 gal. fluid		

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

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

Estimated Production Per 24 Hours	Oil	Bbls.	Gas	Mcf	Water	Bbls.	Gas-Oil Ratio	Gravity
			1500					

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 2568-2755'

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
ACO-1 WELL HISTORY
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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 SLOW 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 PBT
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Inj?) Docket No. _____
4/6/92 4/9/92 Delayed
Spud Date Date Reached TD Completion Date

API No. 15 - 055-21065-0000
County Finney
SW - SE - NW - NE Sec. 25 Twp. 25 Rge. 33 East West
4030 Feet from N (circle one) Line of Section
1450 Feet from W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
NE, SE, NW, or SW (circle one)
Lease Name Murphy G.U. Well # 2HI
Field Name Hugoton

Producing Formation Chase
Elevation: Ground 2,910' KB 2,921'
Total Depth 2,999' PBTD _____

Amount of Surface Pipe Set and Cemented at 1,000 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 ALT 1 DR 10-26-92
(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 October 20, 1992
Subscribed and sworn to before me this 20 day of October, 1992
Notary Public Natalie M. Howard
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 Murphy G.U. Well # 2HI
 County Finney
 Sec. 25 Twp. 25 Rge. 33 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 (Submit Copy.) Yes No

List All E. Logs Run:

Name	Top	Datum
Herington	2,568'	+353
Krider	2,592'	+329
Winfield	2,628'	+293
Towanda	2,690'	+231
Council Grove	2,856'	+ 65

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	12-1/4"	8-5/8"	24#	1,000'	Class C	475	
Production	7-7/8"	5-1/2"	15.5#	2,999'	Class C	600	

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

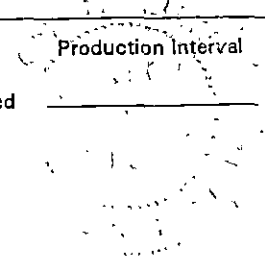
TUBING RECORD		Size	Set At	Packer At	Liner Run	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
N/A						
Date of First, Resumed Production, SWD or Inj		Producing Method				
		<input type="checkbox"/> Flowing	<input type="checkbox"/> Pumping	<input type="checkbox"/> Gas Lift	<input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

Disposition of Gas:

METHOD OF COMPLETION

Production Interval

Vented Sold Used on Lease Open Hole Perf. Dually Comp. Commingled
 (If vented, submit ACO-18) Other (Specify) _____



ORIGINAL

DRILLERS LOG

AMOCO PRODUCTION COMPANY
MURPHY GU NO. 2 H1
SECTION 25-T25S-R33W
FINNEY COUNTY, KANSAS

COMMENCED: 04-06-92
COMPLETED: 04-09-92

SURFACE CASING: 992' OF 8 5/8"
OMTD W/325 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	0-1000
RED BED	1000-2575
SHALE & LIME	2575-2830
LIME & SHALE	2830-2999 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
A. J. JACQUES

STATE OF KANSAS :ss:

SUBSCRIBED AND SWORN TO BEFORE ME THIS 9TH DAY OF APRIL, 1992.

BECKY J. WHETSTONE
NOTARY PUBLIC
STATE OF KANSAS
MY APPT. EXPIRES 4/29/95

RECEIVED *Becky J. Whetstone*
STATE CORPORATION COMMISSION
BECKY J. WHETSTONE, NOTARY PUBLIC

SEP 8 1992

CONSERVATION DIVISION
WICHITA, KANSAS

SERVICE ORDER

DC-838-A

PERSON TAKING CALL DG Francisco		DATE/TIME 4/8/92	DS LOCATION U14SSes. 08-12 - 4404	TREATMENT NUMBER
CUSTOMER Cheyenne Drilling		ORDERED BY Jack Pepper	TELEPHONE 272-1526	MOBILE
TYPE JOB LS	JOB DATE 4/8/92	TIME: ON LOC	PUMP	CUSTOMER REP ON LOCATION
WELL NAME & NUMBER Murphy GU2HI		REWORK NEW	LOCATION Sec 25-25S-33 W	POOL/FIELD
CONTRACTOR ON SITE Cheyenne #2		DS SALES REPRESENTATIVE TY	CUSTOMER ORDER NUMBER	COUNTY/PARISH Finney Co
				STATE KANSAS

TUBING/DP	SIZE	DEPTH MD / TVD	WT	THREAD	TREATMENT VIA	PACKER/RETAINER
CASING:	5 1/2				CS ANN:	DEPTH:
LINER:			BHST	BHCT	SERVICE INSTRUCTIONS:	
OPEN HOLE:	7 3/8				1 - 5 1/2 Top Plug 5 - 5 1/2 Centralizers 1 - 5 1/2 Cement Nose Guard 1 - 5 1/2 Orifice Fill Insert Float 1 Threadlock 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:	

DIAMETER OF PERFORATIONS = _____

WELLHEAD CONN: **5 1/2 Head manifold & Swedge**

SPECIAL INSTRUCTIONS/EQUIPMENT: _____

SYSTEM DESCRIPTION:

System 1 **450 SKS 65/35 (C/P02) + 6% D-20 + 1/4 #/SK D-29**
12.2 PPG 2.1 F3/FT 11.5 gal/sk

System 2 _____

System 3 **150 SKS CLASS C + 1/4 #/SK D-29**
12.2 PPG 2.1 F3/FT 11.5 gal/sk

System 4 _____

Additional Materials: _____

Directions: **Plymell School - 3 North - 1 mi west - South into**

CEMENTING SERVICE REPORT

ORIGINAL



DOWELL SCHLUMBERGER INCORPORATED

TREATMENT NUMBER 44401 DATE 1/9/52
 STAGE DS DISTRICT JKS 03-12

DS-403 PRINTED IN U.S.A.

WELL NAME AND NO. Murphy, GU 2HT LOCATION (LEGAL) Sec. 25-25S-33W
 FIELD-POOL Huerton FORMATION Chase
 COUNTY/PUBLISH Finney STATE Ks. API NO

RIG NAME Cheyenne #2
 WELL DATA: BIT SIZE 7 7/8 CSO/Liner Size 5 1/2 BOTTOM TOTAL DEPTH 2959 WEIGHT 15.5 TOP
 ROT CABLE FOOTAGE 3002
 MUD TYPE GRADE
 BHST BHCT THREAD 8rd.
 MUD DENSITY LESS FOOTAGE SHOES JOINTS 43 TOTAL
 MUD VISC Disp Capacity 2959

NAME Cheyenne Drilling
 AND
 ADDRESS
 ZIP CODE

Float	TYPE	DEPTH	Stage Tool	TYPE	DEPTH
	<u>Auto P. 11 Flapper</u>	<u>2959</u>			
SHOE	<u>Cmt Nose Guide</u>	<u>3002</u>			

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

Head & Plugs TBG D P SQUEEZE JOB
 Double WEIGHT TOOL TYPE
 Single GRADE DEPTH
 Swage THREAD TAIL PIPE SIZE DEPTH
 Knock-off NEW USED TUBING VOLUME Bbls
 TOP RW BOT DW DEPTH CASING VOL BELOW TOOL Bbls
 ANNUAL VOLUME Bbls

IS CASING/TUBING SECURED? YES NO
 LIFT PRESSURE 1959 PSI CASING WEIGHT - SURFACE AREA (J 14 x R)
 PRESSURE LIMIT 1000 PSI BUMP PLUG TO 1790 PSI
 ROTATE RPM RECIPROCATE 10 FT No of Centralizers 5

JOB SCHEDULED FOR TIME 0830 DATE 4/9/52 ARRIVE ON LOCATION TIME 0830 DATE 4/9/52 LEFT LOCATION TIME 1400 DATE 4/9/52

TIME	PRESSURE		VOLUME PUMPED BBL		INJECT RATE	FLUID TYPE	FLUID DENSITY	SERVICE LOG DETAIL
	TBG OR D P	CASING	INCREMENT	CUM				
0001 to 2400								
1235	2150	N/A	1	-	1	H ₂ O	8.33	PRE-JOB SAFETY MEETING Ps: test lines
1237		200	20	-	6.0	H ₂ O	8.33	H ₂ O Ahead
1241		260	168	-	6.0	Cmt	12.2	Start lead Cmt
1308		170	35	-	6.0	Cmt	14.8	Start Tail Cmt.
1314		-	-	-	-	-	-	Shutdown / Drop plug / wash lines
1318		0	70	-	6.1	H ₂ O	8.33	Start Displacement
1328		880	60	-	2.0			Lower Pump Rate
1334		1790	-	-	2.0			Bump Plug
1335		0	-	-	-			Release Psi.
1335								Job Done
<u>13:45</u>								
								Ps: Rate
								Lead 200 6
								Tail 300 6
								Disp. 750 6

REMARKS

SYSTEM CODE	NO OF SACKS	YIELD CU FT/SK	COMPOSITION OF CEMENTING SYSTEMS		SLURRY MIXED		
			BBLs	DENSITY	BBLs	DENSITY	
1	150	2.1	65% (1/2 Poz) + 67% N-20 + 1/4 1/2 SK N-29	108.3	12.2		
2	150	1.32	CLASS "C" + 1/4 1/2 SK N-29	35.2	14.8		
3							
4							
5							
6							

BREAKDOWN FLUID TYPE VOLUME DENSITY PRESSURE MAX. 1790 MIN 0
 HESITATION SO RUNNING SO CIRCULATION LOST YES NO Cement Circulated To Surf YES NO 415 Bbls
 BREAKDOWN PSI FINAL PSI DISPLACEMENT VOL 70.4 Bbls TYPE OF WELL OIL STORAGE BRINE WATER
 GAS INJECTION WILDCAT
 Washed Thru Parts YES NO TO FT MEASURED DISPLACEMENT WIRELINE
 PERFORATIONS TO TO CUSTOMER REPRESENTATIVE Tack Pepper DS SUPERVISOR Spencer Ridgway

DOWELL SCHLUMBERGER INCORPORATED

P.O. BOX 4378 HOUSTON, TEXAS 77210

CUSTOMER

ORIGINAL

OILFIELD SERVICES
INDUSTRIAL SERVICES

DSI SERVICE ORDER
RECEIPT AND INVOICE NO.

DSI SERVICE LOCATION NAME AND NUMBER

Ulysses, KS 0312

03-12-4404

CUSTOMER NUMBER

CUSTOMER P.O. NUMBER

TYPE SERVICE CODE

285

BUSINESS CODFS

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.

WORKOVER NEW WELL OTHER

API OR IC NUMBER

IMPORTANT
SEE OTHER SIDE FOR TERMS & CONDITIONS

ARRIVE LOCATION MO DAY YR TIME
4 9 92 0830

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 9 92 1335

SIGNATURE OF CUSTOMER OR AUTHORIZED REPRESENTATIVE

Chalk

STATE CODE COUNTY / PARISH CODE CITY
Ks. Minney

WELL NAME AND NUMBER / JOB SITE
Murphy GU

LOCATION AND POOL / PLANT ADDRESS
Sec 25-25s-33w

SHIPPED VIA
885

ITEM/PRICE REF NO	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
102871-030	Pump Truck Charge	Ea	1	1165.00	1165.00
29102-000	Delivery Charge	TM	418	.84	351.30
49100-000	Service Charge	Fp	639	1.15	734.85
59697-000	PACR	Ea	1	135.00	135.00
	Mileage	M	15	265.00	39.75
48601-000	Cmt Head Rental	Ea	1	20.00	N/C
40003-000	Cmt. Class 2	SKs	443	7.75	3433.25
45008-000	Light Pwr III	SKs	157	3.83	601.31
45014-050	D-20 Gel	lbs	2350	.16	376.00
24003-025	D-29 Cellophane Flacks	lbs	152	1.53	232.56
13.45					
50101-054	5 1/2 Cmt Nose Guide Shoe	Ea	1	135.00	135.00
53007-054	5 1/2 Auto Fill Insert Flapper	Ea	1	220.00	220.00
56011-054	5 1/2 Centralizer	Ea	5	57.00	285.00
56741-054	5 1/2 Top Rubber Plug	Ea	1	105.00	105.00
57499-001	Thread Lock Kit	Ea	1	23.50	23.50

Field Estimate \$7837.52

SUB TOTAL

LICENSE/REIMBURSEMENT FEE

LICENSE/REIMBURSEMENT FEE

REMARKS

Thanks for using DSI!

STATE

* TAX ON \$

COUNTY

* TAX ON \$

CITY

* TAX ON \$

SIGNATURE OF DSI REPRESENTATIVE

TOTAL \$

Dr W. Ridgway

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, scaling 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.



ORIGINAL

SERVICE ORDER

DS-938-A

CUSTOMER

PERSON TAKING CALL

DATE/TIME

DS LOCATION

TREATMENT NUMBER

D.S. Francisco

4/5/92

Ulysses 03-12-4398

Cheyenne Drilling

ORDERED BY

TELEPHONE

MOBILE

JACK Pepper

272-1526

MOBILE

TYPE JOB
SurfJOB DATE
4/6/92

TIME: ON LOC

PUMP

CUSTOMER REP ON LOCATION

TELEPHONE

MOBILE

Rig 272-1602

WELL NAME & NUMBER
Murphy G.H. #2 HZREWORK
NEW

LOCATION

POOL/FIELD

COUNTY/PARISH
Finney CoCONTRACTOR ON SITE
Cheyenne #2DS SALES REPRESENTATIVE
TY

CUSTOMER ORDER NUMBER

STATE
KANSAS

TUBING/DP:

SIZE

DEPTH
MD TVD

WT

THRFAD

TUBING/DP

TREATMENT VIA
ANN

PACKER/BTAINER

DEPTH:

CASING:

8 5/8

24"

8RD

SERVICE INSTRUCTIONS:

LINER:

12 1/4

BHST

BHCT

1-8 5/8 Top Plug

OPEN HOLE:

12 1/4

BHST

BHCT

1-8 5/8 Baffle Plate

PERFORATED INTERVALS

FORMATION:

TOP	TO	BOTTOM	NO. OF HOLES	TOP	TO	BOTTOM	NO. OF HOLES
	TO				TO		
	TO				TO		
	TO				TO		
	TO				TO		

REQUIRED RATE/PRESS.

HYDRAULIC HORSEPOWER ORDERED:

MAX PSI ALLOWABLE:

DIAMETER OF PERFORATIONS =

WELLHEAD CONN:

8 5/8 Head Manifold & Swedge

SPECIAL INSTRUCTIONS/EQUIPMENT:

3-8 5/8 Centralizers (DS)

1 Thread Lock Kit

SYSTEM DESCRIPTION:

System 1 325 SKS 6 5/8 (C/Poz) + 6% D-20 + 2% SI + 1/4 #/SK D-29
 12.2 PPG 2.1 CF/FT 11.5 GPM/SK

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

System 3 14.8 PPG 1.32 CF/FT 6.32 GPM/SK

System 4

Additional Materials:

Directions: Plymell School - 3M-1W - south into



TREATMENT NUMBER 03-12-4398	DATE 4-6-92
STAGE DS	DISTRICT OLYSSSES KS

WELL NAME AND NO. Murphy G.U. # 2 HT LOCATION (LEGAL) Sec 25-255-33W

COUNTY/PARISH Finney STATE Kansas API. NO.

NAME Cheyenne Drilling

ADDRESS _____ ZIP CODE _____

SPECIAL INSTRUCTIONS _____

IS CASING/TUBING SECURED? YES NO
 LIFT PRESSURE 411 PSI CASING WEIGHT + SURFACE AREA (3.14 x R²)
 PRESSURE LIMIT _____ PSI BUMP PLUG TO _____ PSI

ROTATE _____ RPM RECIPROCATE _____ FT No. of Centralizers 3

RIG NAME: Cheyenne #2

WELL DATA:		BOTTOM		TOP	
BIT SIZE <u>12 1/4</u>	CSG/Liner Size <u>8 5/8</u>				
TOTAL DEPTH	WEIGHT <u>214</u>				
<input checked="" type="checkbox"/> ROT <input type="checkbox"/> CABLE	FOOTAGE <u>1000</u>				
MUD TYPE	GRADE				
<input type="checkbox"/> BHST <input type="checkbox"/> BHCT	THREAD				
MUD DENSITY <u>11.0</u>	LESS FOOTAGE SHOE JOINT(S)	<u>43.7</u>			TOTAL
MUD VISC.	Disp. Capacity	<u>60.95</u>			<u>60.95</u>

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

Float	TYPE	<u>Baffle</u>	Stage Tool	TYPE	
	DEPTH	<u>956.83</u>		DEPTH	
Shoe	TYPE	<u>rx. 2 1/2 in</u>	Stage Tool	TYPE	
	DEPTH	<u>1000</u>		DEPTH	

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	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

JOB SCHEDULED FOR TIME: 2230 DATE: 4-6 ARRIVE ON LOCATION TIME: 2200 DATE: 4-6 LEFT LOCATION TIME: 0415 DATE: 4-7-92

TIME	PRESSURE		VOLUME PUMPED BBL		INJECT RATE	FLUID TYPE	FLUID DENSITY	SERVICE LOG DETAIL
	TBG OR D.P.	CASING	INCREMENT	CUM				
0001 to 2400								
0230								PRE-JOB SAFETY MEETING
0234								PRESSURE TEST LINES
0236		130	10		3	F1120	8.34	START WATER AHEAD
0239		110	122	10	4	CMT	12.2	WATER AHEAD PUMPED START LEAD CMT
0307		100	35	132	4	CMT	14.8	LEAD CMT PUMPED START TAIL CMT
0315		-		167	-			TAIL CMT PUMPED SHUT DOWN
0317		-		167	-			DEAD TOP PLUG
0317		-	61	167	4	F1120		START DISPLACEMENT
0326		140		35	3			SLOW RATE
0329		220		45	3			CEMENT TO SURFACE
0329		220		46	2			SLOW RATE 280PM
0330		350		61	2			Bump top plug
0373		900						BLEED PRESSURE DOWN 350 PSI + CLOSE IN
								Head + Man. Feed

REMARKS _____

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS				SLURRY MIXED	
							BBLs	DENSITY
1.	325	2.1	65/35 (C/POZ) + 6% D20 + 2% Calc + 1/4" SK D29				122	12.2
2.	150	1.32	Class C + 2% Calc + 1/4" SK D29				35	14.8
3.								
4.								
5.								
6.								

BREAKDOWN FLUID TYPE _____ VOLUME _____ DENSITY _____ PRESSURE _____ MAX. _____ MIN: 43.365

HESITATION SQ. RUNNING SQ. CIRCULATION LOST YES NO Cement Circulated To Surf. YES NO 10 Bbls.

BREAKDOWN _____ PSI FINAL _____ PSI DISPLACEMENT VOL. _____ Bbls

Washed Thru Perfs YES NO TO _____ FT. MEASURED DISPLACEMENT _____ WIRELINE

PERFORATIONS _____ CUSTOMER REPRESENTATIVE _____ DS SUPERVISOR _____

TO _____ TO _____
 TO _____ TO _____
Jack Pepper
Greg Greenick

DOWELL SCHLUMBERGER INCORPORATED

P.O. BOX 4378 HOUSTON, TEXAS 77210

D.S.I. REPRESENTATIVE

ORIGINAL

OILFIELD SERVICES
INDUSTRIAL SERVICES

DSI SERVICE ORDER
RECEIPT AND INVOICE NO.
63-12-4398

DSI SERVICE LOCATION NAME AND NUMBER
Ulussee K 1 0-3-12

CUSTOMER NUMBER	CUSTOMER P.O. NUMBER	TYPE SERVICE CODE 277	BUSINESS CODES
CUSTOMER'S NAME Chadwick		WORKOVER NEW WELL OTHER	API OR IC NUMBER

ADDRESS
CITY, STATE AND ZIP CODE

IMPORTANT! SEE OTHER SIDE FOR TERMS & CONDITIONS

ARRIVE LOCATION	MO.	DAY	YR.	TIME
0095	4	16	92	2200

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.

Qty 21000 2 1/2 3000 Worn 325 3K, 6-7-35 (92-2)
+ 6% O20 + 2% O21 + 14% 13C 029
150000 C + 2% O21 + 14% 13C 029

JOB COMPLETION	MO.	DAY	YR.	TIME
	4	7	92	0830

SIGNATURE OF CUSTOMER OR AUTHORIZED REPRESENTATIVE

STATE Kans	CODE	COUNTY / PARISH Finney	CODE	CITY
WELL NAME AND NUMBER / JOB SITE Mozon, well "2H"		LOCATION AND POOL / PLANT ADDRESS Sec 25-255-33W		SHIPPED VIA DS

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
059200-002	Mileage chg	ML	15	260	3972
102271-010	PUMP chg	EA	1	705	705
059292-000	2012	EA	1	135	135
047102-000	Hookup 45 1/2" 15m	TRAIL	338	84	28372
047100-000	22000 chg	TR3	520	112	57840
047003-010	CLASS C	TR3	360	772	277920
045001-000	LINE FILTER 3	TR3	114	352	40128
045014-000	120 1/2" 15m	LB	1696	172	271712
047003-100	22000	LB	248	134	28432
047003-015	029 CENTRAL FLOW	LB	125	153	18375
050015-005	PIPELINE FLOW	EA	1	74	74
057792-000	22000 (2000)	EA	23	30	690
050200-000	TOP FLY	EA	71	75	5325
057797-000	TRAIL CHG	EA	1	23	23

RECEIPT

777
SUB TOTAL **\$ 6021.83** Less 44% **\$ 3372.22**

LICENSE/REIMBURSEMENT FEE	
LICENSE/REIMBURSEMENT FEE	
REMARKS: Thanks for using DSI Mileage fee bill	STATE % TAX ON \$ COUNTY % TAX ON \$ 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 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.

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