

RECEIVED

DEC 10 2001

KCC WICHITA

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
September 1999  
Form Must Be Typed

WELL COMPLETION FORM

WELL HISTORY - DESCRIPTION OF WELL & LEASE

ORIGINAL

Operator: License # 6039  
Name: L.D. Drilling, Inc.  
Address: RR 1 Box 183 D  
City/State/Zip: Great Bend, Kansas 67530  
Purchaser: Genesis Crude Oil, LLC & Reliance Energy  
Operator Contact Person: L.D. Davis  
Phone: (620) 793-3051  
Contractor: Name: Duke Drilling Co., Inc.  
License: 5929  
Wellsite Geologist: Kim Shoemaker

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: \_\_\_\_\_  
Well Name: \_\_\_\_\_  
Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_  
 Deepening  Re-perf.  Conv. to Enhr./SWD  
 Plug Back \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_  
 Commingled \_\_\_\_\_ Docket No. \_\_\_\_\_  
 Dual Completion \_\_\_\_\_ Docket No. \_\_\_\_\_  
 Other (SWD or Enhr.?) \_\_\_\_\_ Docket No. \_\_\_\_\_

06-30-01 07-11-01 7-19-01  
Spud Date or Date Reached TD Completion Date or  
Recompletion Date Recompletion Date

API No. 15 - 033-21236-0000  
County: Comanche County, Kansas  
C SE NE Sec. 1 Twp. 31 S. R. 20  East  West  
1980 feet from S 1 N (circle one) Line of Section  
660 feet from E W (circle one) Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
(circle one) NE SE NW SW  
Lease Name: Arlie Well #: 3  
Field Name: \_\_\_\_\_  
Producing Formation: Mississippian  
Elevation: Ground: 2121' Kelly Bushing: 2132'  
Total Depth: 5200' Plug Back Total Depth: \_\_\_\_\_  
Amount of Surface Pipe Set and Cemented at 650 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 OH I KGR 8/07/07  
(Data must be collected from the Reserve Pit)  
Chloride content \_\_\_\_\_ ppm Fluid volume \_\_\_\_\_ bbls  
Dewatering method used \_\_\_\_\_  
Location of fluid disposal if hauled offsite: \_\_\_\_\_  
Operator Name: \_\_\_\_\_  
Lease Name: \_\_\_\_\_ License No.: \_\_\_\_\_  
Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West  
County: \_\_\_\_\_ Docket No.: \_\_\_\_\_

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature: L.D. Davis  
L. D. Davis  
Title: President Date: 5th October 2001

Subscribed and sworn to before me this 5th day of October

2001  
Notary Public: Bessie M. DeWerff  
Bessie M. DeWerff

Date Commission Expires: 5-20-05  
NOTARY PUBLIC - State of Kansas  
BESSIE M. DeWERFF  
My Appt. Exp. 5-20-05

KCC Office Use ONLY  
 Letter of Confidentiality Attached  
If Denied, Yes  Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution

✓



X

Operator Name: L.D. Drilling, Inc. Lease Name: Arlie Well #: 3

Sec. 1 Twp. 31 S. R. 20  East  West County: Comanche County, Kansas

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems 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 test, along with final chart(s). Attach extra sheet if more space is needed. Attach copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Submit Copy)</i>  List All E. Logs Run:  Dual Induction, Compensated Density/Neutron, Micro Log, Sonic, Dual Receiver Cement Bond	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum   See attachment
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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	# Sacs Used	Type and Percent Additives
<b>Conductor</b>		20"		95'			
<b>Surface</b>	12-1/4"	8-5/8"	24#	650'	65/35 Poz ClassA	225 100	3%cc 1/2#floseal 3%cc 2%gel
<b>Production</b>	7-7/8"	5-1/2"	15.5#	5199'	Premium	275	10%salt 5%caseal

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 <i>(Amount and Kind of Material Used)</i>	Depth
2 spf	5054-5066	28% Acid	5054-66

TUBING RECORD		Size <u>2 3/8"</u> Set At <u>5170'</u> Packer At	Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No
Date of First, Resumerd Production, SWD or Enhr. <u>7-19-01</u>		Producing Method <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)	
Estimated Production Per 24 Hours	Oil Bbls. <u>1 Or 2</u>	Gas Mcl <u>40</u>	Water Bbls. <u>0</u> Gas-Oil Ratio Gravity

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

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

Production Interval

NOTARY PUBLIC - STATE OF KANSAS  
 L. D. DRILLING, INC.  
 1000 E. 10th St.  
 LAWRENCE, KS 66044

ORIGINAL

DAILY DRILLING REPORT

OPERATOR: L. D. DRILLING, INC.

LEASE: ARLIE #3  
C-SE NE SEC. 1-31-20  
Comanche County, Ks.

WELLSITE GEOLOGIST: KIM SHOEMAKER

ELEVATION: 2121' GR 2132'

CONTRACTOR: DUKE DRILLING COMPANY

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PTD: 6000'

SPUD: 2:00 P.M. June 30th

KCC WICHITA

SURFACE: Set 15 Jts. Set @ 650' W/225 sx. 65/35 Poz. 3% cc 1/4# Floseal & 100 sx. Class A, 2% Gel, 3% ccPlug down @ 3:00 A.M. Did Circulate. Allied Cementing 1/2° @ 650'

20" set @ 95'  
6-29-01 Move In  
6-30-01 Rig up and spud  
7-01-01 650' W.O.C.  
7-02-01 1625' Drilling  
7-03-01 2556' Drilling  
7-04-01 2965' Drilling  
7-05-01 3488' Drilling  
7-06-01 3970' Drilling 1/2° @ 3739'  
7-07-01 4404' DST #1 1/2° @ 4404'  
7-08-01 4483' Drilling  
7-09-01 4818' Drilling  
7-10-01 5068' DST #2 in progress  
7-11-01 5106' Trip in after DST #3  
Will drill approx. 100', and log.  
7-12-01 5200' RTD Preparing to run 5-1/2" csg.

Set 125 Jts. 5.5" 15.5# at 5199' W/275 sx. Pozmix, 5# Calseal, 10% salt, .5% Halad 322, 5# Gilsonite-----Plug down 5:15 P.M. 7-12-01 L. D. Davis --- Halliburton Cementing

DST #1 4389-4404 Lansing B  
TIMES: 30-45-45-60  
BLOW: 1st Open 2" decrease to 1"  
2nd open weak blow through-out  
RECOVERY: 75' GIP, 45' socwm 4%oil, 5%w, 15%gas, 76% mud  
60' so&gcwm, 120' sgcwm  
IFP: 42-126 FFP: 98-134 ISIP: 1466 FSIP: 1449  
DST #2 4976-5068 Miss. 110°  
TIMES: 30-45-45-60 GTS 10 min  
BLOW: 1st open bb in 45 sec. 34000MCF  
2nd open 100MCF 68MCF stabilized  
RECOVERY: 240' SLGCM

IFP:48-68 FFP: 62-87 ISIP: 1674 FSIP: 1644

DST #3 5072-5106 Miss.  
TIMES: 30-30-30-30  
BLOW: 1st open weak 1/2" blo  
2nd open 3" blow dec. to 1/2"  
RECOVERY: 30' Mud, 60' so&gcm 5% gas, 3% oil, 92% mud  
IFP: 33-38 FFP: 41-46 ISIP: 367 FSIP: 369

SAMPLE TOPS:

LOG TOPS

Heebner	4158	(-2026)	4156	(-2024)
Brown Lime	4339	(-2207)	4339	(-2207)
Lansing K/C	4364	(-2232)	4364	(-2232)
Stark	4670	(-2538)	4668	(-2536)
Base K/C	4802	(-2670)	4804	(-2672)
Marm.	4832	(-2700)	4830	(-2698)
Pawnee	4895	(-2763)	4892	(-2760)
Cherokee	4933	(-2801)	4930	(-2798)
Mississippi	5018	(-2886)	5028	(-2096)
			LTD 5200	(-3068)

RECEIVED **WEDER**  
SERVICES, INC.

ORIGINAL

DEC 10 2001

4420 ANDERSON ROAD • P.O. BOX 1087  
WOODWARD, OK 73802  
PHONE (580) 256-9371 • FAX (580) 256-6997

KCC WICHITA

WORK ORDER # 2252

SPC16932

RIG#:		DATE OF ORDER:	6/25/01
COMPANY NAME:	L.D. Davis	STARTING DATE:	6/26-27/01
LEASE NAME:	ARLEY #3	ORDER TAKEN BY:	Matthew L.
LEGAL DESCRIPTION:	1-3120-SENE	ORDER BY:	Shane Sumner
		PHONE #:	620-786

DIRECTIONS: COLDWATER N 183 To county line 6 1/4 W  
South side By Tank Battery Black & White.

Face Rig		N	E	S	W	Pipe 97	Fuel - Rig:
Rat Hole NONE						Hole 97	Fuel - Vehicle:
Mouse Hole NONE						Cement 1 1/2	Credit Card Expenses:
Conductor 20"						Mud Truck ✓	
Cellar 5x5						Pump Truck ✓	
Tin Horn 5x5						Welding ✓	

- Drilled 97' of 30" Conductor Hole
- Drilled 5' of 60" Hole & Set 5 x 60" Tinhorn Cellar
- Furnished Backhoe \_\_\_\_\_
- Furnished 97' of 20" Conductor Pipe
- Furnished Shucks \_\_\_\_\_ Rat \_\_\_\_\_ Mouse \_\_\_\_\_
- Furnished Mud, Water, & Trucking
- Furnished Welder & Materials
- Furnished Grout
- Furnished Grout Pump
- Drilled Rat & Mouse Holes
- Rock Time \_\_\_\_\_ Hrs

TOTAL BID 8827.50  
STATE SALES TAX 4 1/2% 62.98  
COUNTY SALES TAX —% —  
INSURANCE SURCHARGE 88.28  
FUEL SURCHARGE 220.69  
TOTAL INVOICE 9199.25

# ALLIED CEMENTING CO., INC.

7453

Federal Tax I.D. XXXXXXXXXX

ORIGINAL

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT:

Med Lodge

DATE <u>6-30-01</u>	SEC. <u>1</u>	TWP. <u>31</u>	RANGE <u>20</u>	CALLED OUT <u>8:00 PM</u>	ON LOCATION <u>10:30 PM</u>	JOB START <u>2:30 AM</u>	JOB FINISH <u>3:00 AM</u>
LEASE <u>Aolie</u>		WELL # <u>3</u>	LOCATION <u>Coldwater N 10 County</u>		COUNTY <u>Comanche</u>	STATE <u>Ks</u>	
OLD OR <input checked="" type="radio"/> NEW (Circle one)			<u>line 6 w 5/s</u>				

CONTRACTOR Duke #1

TYPE OF JOB Surface

HOLE SIZE 12 1/2 T.D. 650

CASING SIZE 8 7/8 x 24 DEPTH 650

TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_

DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_

TOOL Baffle DEPTH 607

PRES. MAX 450 MINIMUM 150

MEAS. LINE \_\_\_\_\_ SHOE JOINT 43

CEMENT LEFT IN CSG. \_\_\_\_\_

PERFS. \_\_\_\_\_

DISPLACEMENT 39 BBLs Fresh H<sub>2</sub>O

OWNER L.D. Drlg

CEMENT

AMOUNT ORDERED 225 sx 6.5, 35 lb + 3% cc

1/4" Flo-seal 100 sx Class A + 3% cc

2% gel

COMMON A	<u>100</u>	@	<u>6.65</u>	<u>665.00</u>
POZMIX		@		
GEL	<u>2</u>	@	<u>10.00</u>	<u>20.00</u>
CHLORIDE	<u>11</u>	@	<u>30.00</u>	<u>330.00</u>
<u>AWW</u>	<u>225</u>	@	<u>6.30</u>	<u>1417.50</u>
<u>FLO-SEAL 56#</u>		@	<u>1.40</u>	<u>78.40</u>
		@		
		@		
		@		
HANDLING	<u>350</u>	@	<u>1.10</u>	<u>385.00</u>
MILEAGE	<u>350 x .50</u>		<u>.04</u>	<u>700.00</u>

EQUIPMENT

PUMP TRUCK CEMENTER Justin Hart

# 352 HELPER David Felio

BULK TRUCK

# 363 DRIVER Kevin Congrove

BULK TRUCK

# 363 DRIVER Mark Haas

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NCC WICHITA SERVICE

TOTAL 3595.90

REMARKS:

Pipe on Bottom Break Circ

Mix 225 sx 6.5, 35 lb @ 12.8#

Mix 100 sx A 1/2 @ 15.2# shut down

Release Plug Start Disp @ 5 AM

slow Rate @ 35 BBLs 3 BPM

Bump Plug @ 39 BBLs

Shut Head in Release Press

circulated Cement

DEPTH OF JOB	<u>650</u>		
PUMP TRUCK CHARGE	<u>0-300'</u>		<u>520.00</u>
EXTRA FOOTAGE	<u>350'</u>	@	<u>.50</u> <u>175.00</u>
MILEAGE	<u>50</u>	@	<u>3.00</u> <u>150.00</u>
PLUG	<u>8 7/8 TRP</u>	@	<u>100.00</u> <u>100.00</u>
		@	
		@	

TOTAL 945.00

CHARGE TO: L.D. Drlg

STREET RR 1, Box 183 B

CITY GREAT BEND STATE KANSAS ZIP 67530

FLOAT EQUIPMENT

<u>8 7/8</u>			
<u>1- Baffle plate</u>	@	<u>45.00</u>	<u>45.00</u>
<u>1- Basket</u>	@	<u>180.00</u>	<u>180.00</u>
	@		
	@		
	@		

TOTAL 225.00

To Allied Cementing Co., Inc.  
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND CONDITIONS" listed on the reverse side.

TAX \_\_\_\_\_

TOTAL CHARGE 4065.90

DISCOUNT 4065.90 IF PAID IN 30 DAYS

SIGNATURE

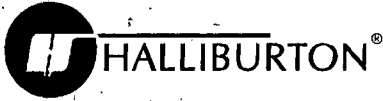
Mike Godfrey

Mike Godfrey

PRINTED NAME

# SALES ORDER

# ORIGINAL



Halliburton Energy Services, Inc.

**Sales Order Number: 1400471**

**Sales Order Date: July 11, 2001**

<p><b>SOLD TO:</b>                  L D DRILLING CO                  ROUTE 1 BOX 183-B                  GREAT BEND KS 67530                  USA</p>	<p><b>Ticket Type:</b> Services  <b>Well/Rig Name:</b> L D DRILLING ARLIE #3, COMANCHE  <b>Company Code:</b> 1100  <b>Customer P.O. No.:</b> n/a  <b>Shipping Point:</b> Liberal, KS, USA  <b>Sales Office:</b> Mid-Continent BD  <b>Well Type:</b> Gas  <b>Well Category:</b> Development  <b>Service Location:</b> 0037  <b>Payment Terms:</b> Net due in 20 days</p>
<p><b>SHIP TO:</b>                  L D DRILLING ARLIE #3, COMANCHE                  ARLIE                  *                  COLDWATER KS 67029                  USA</p>	<p><b>RECEIVED</b>                  DEC 10 2001                  NCC WICHITA</p>

Material	Description	QTY	UOM	Base Amount	Unit Amount	Gross Amount	Discount	Net Amount
7523	CEMENT PRODUCTION CASING - BOM  JP035	1	JOB					
1	MILEAGE FROM NEAREST HES BASE,/UNIT 000-117 Number of Units	120	MI		5.03	603.60	211.26-	392.34
2	MILEAGE FOR CEMENTING CREW,ZI  000-119 Number of Units	120	MI		2.96	355.20	124.32-	230.88
16091	CSG PUMPING,0-4 HRS,ZI  001-016 / CSG PUMPING,0-4 HRS,ZI DEPTH FEET/METRES (FT/M)	1	EA		3,325.00	3,325.00	1,163.75-	2,161.25
132	PORTABLE DAS,/DAY/JOB,ZI  045-050 NUMBER OF DAYS	1	JOB		916.00	916.00	320.60-	595.40
7	ENVIRONMENTAL SURCHARGE,/JOB,ZI 000-150	1	JOB		75.51	75.51		75.51



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Halliburton Energy Services, Inc.

KCC WICHITA

Sales Order Number: 1400471

Sales Order Date: July 11, 2001

Material	Description	QTY	UOM	Base Amount	Unit Amount	Gross Amount	Discount	Net Amount
114	R/A DENSOMETER W/CHART RECORDER,,JOB,ZI 019-500 NUMBER OF UNITS	1	JOB		713.00	713.00	249.55-	463.45
88	PLUG CONTAINER RENTAL-1st Day 019-248 NUMBER OF DAYS	1	EA		582.00	582.00	203.70-	378.30
100004723	SHOE - GUIDE - 5-1/2 8RD 12A825.205 / SHO E - GUIDE - 5-1/2 8RD	1	EA		214.70	214.70	75.15-	139.55
100076173	FLOAT-IFV,5 1/2,8RD,LG,8RD & BUTRS 24A - 815.19701 / FLOAT-IFV- 5-1/2 8RD, LG 8RD & / BUTTRESS - 14-23#/FT - FLAPPER VALVE	1	EA		264.60	264.60	92.61-	171.99
100004476	CTRZR ASSY,5 1/2 CSG X 7 7/8 HOLE,HINGED 806.60022 / CENTRALIZER ASSY - API - 5-1/2 CSG X / 7-7/8 HOLE - HINGED - W/WELDED / IMPERIAL BOWS	6	EA		76.23	457.38	160.08-	297.30
100013930	FILUP ASSY,1.250 ID,4 1/2,5 IN INSR 27815.19113 / FILLUP ASSY - 1.250 ID - 4- 1/2 - / 5 IN. INSERT FLOAT VALVE	1	EA		60.75	60.75	21.26-	39.49
13383	SBM MUD FLUSH,ZI 018-315 / SBM MUD FLUSH,ZI	500	GAL		1.20	600.00	210.00-	390.00
100003687	Cement- Premium (Bulk) CEMENT - CLASS H - PREMIUM - BULK / CEMENT - CLASS H - PREMIUM - BULK	275	SK		21.60	5,940.00	2,079.00-	3,861.00
100064022	Chem- Calseal 60 (Bulk) 508-127516.00335 / CHEMICAL - CAL SEAL - BULK	13	SK		54.23	704.99	246.75-	458.24



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Halliburton Energy Services, Inc.

KCC WICHITA

Sales Order Number: 1400471

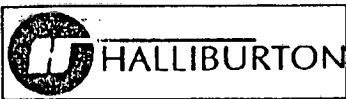
Sales Order Date: July 11, 2001

Material	Description	QTY	UOM	Base Amount	Unit Amount	Gross Amount	Discount	Net Amount
100003700	Chem- Gilsonite (Bulk) 508-292 516.00337 / CHEMICAL - GILSONITE - BULK	1,375	LB		0.79	1,086.25	380.19-	706.06
100003646	CHEMICAL - HALAD-322 - 50 LB SACK 507-775516.00144 / CHEMICAL - HALAD-322 - 50 LB SACK	130	LB		10.32	1,341.60	469.56-	872.04
100003695	SALT,CEM GR,BULK 509-968516.00315 / SALT - CEMENT GRADE - BULK	1,333	LB		0.25	333.25	116.64-	216.61
3965	HANDLE&DUMP SVC CHR, CMT&ADDITIVES,ZI 500-207 NUMBER OF EACH	340 1	CF each		2.82	958.80	335.58-	623.22
76400	MILEAGE,CMTG MTLs DEL/RET PER/TON MI.MIN 500-306 / MILEAGE,CMTG MTLs DEL/RET PER/TON MI.MIN NUMBER OF TONS	1,799 1.00	MI ton		1.72	3,094.28	1,083.00-	2,011.28
100003142	PLUG,CMTG, TOP AL, 5 1/2 13-23# & 5 3/4 402.1505 / PLUG - CMTG - TOP ALUM - 5-1/2 13-23# / & 5-3/4 19.5-22.5#	1	EA		126.50	126.50	44.28-	82.22
<b>SALES ORDER AMOUNT</b>						<b>21,753.41</b>	<b>7,587.28-</b>	<b>14,166.13</b>
Sales Tax - State								464.49
Sales Tax - County								7.30
Sales Tax - City/Loc								94.78
<b>SALES ORDER TOTAL</b>								<b>14,732.70</b> US Dollars

INVOICE INSTRUCTIONS:

Operator Name: \_\_\_\_\_ Halliburton Approval: X \_\_\_\_\_  
 Customer Agent: \_\_\_\_\_ Customer Signature: X \_\_\_\_\_





Work Order Contract

Order Number

1400471

Halliburton Energy Services, Inc.
Houston, Texas 77056

ORIGINAL

70012 SAP

TO: HALLIBURTON ENERGY SERVICES, INC. - YOU ARE HEREBY REQUESTED TO FURNISH EQUIPMENT AND SERVICE PERSONNEL TO DELIVER AND OPERATE THE SAME AS AN INDEPENDENT CONTRACTOR TO CUSTOMER LISTED BELOW AND DELIVER AND SELL PRODUCTS, SUPPLIES AND MATERIALS FOR THE PURPOSE OF SERVICING:

Table with 5 columns: Well No., Farm or Lease, County, State, Well Permit Number. Row 1: 3, ARLIE, COMANCHE, KS, [blank]. Row 2: Customer L.D. DRILLING, Well Owner L.D. DRILLING, Job Purpose Cement Production Casing.

THIS WORK ORDER MUST BE SIGNED BEFORE WORK IS COMMENCED

A. CUSTOMER REPRESENTATION - Customer warrants that the well is in proper condition to receive the services, equipment, products, and materials to be supplied by Halliburton Energy Services, Inc (hereinafter "Halliburton").

B. PRICE AND PAYMENT - The services, equipment, products, and/or materials to be supplied hereunder are priced in accordance with Halliburton's current price list. All prices are exclusive of taxes. If Customer does not have an approved open account with Halliburton, all sums due are payable in cash at the time of performance of services or delivery of equipment, products or materials.

C. RELEASE AND INDEMNITY - Customer agrees to RELEASE Halliburton Group from any and all liability for any and all damages whatsoever to property of any kind owned by, in the possession of, or leased by Customer and those persons and entities Customer has the ability to bind by contract or which are co-interest owners or joint ventures with Customer.

loss of well control, services to control a wild well whether underground or above the surface, reservoir or underground damage, including loss of oil, gas, other mineral substances or water, surface damage arising from underground damage, damage to or loss of the well bore, subsurface trespass or any action in the nature thereof, fire, explosion, subsurface pressure, radioactivity, and pollution and contamination and its cleanup and control.

CUSTOMER'S RELEASE, DEFENSE, INDEMNITY AND HOLD HARMLESS obligations will apply even if the liability and claims are caused by the sole, concurrent, active or passive negligence, fault, or strict liability of one or more members of the Halliburton Group, the unreasonableness of any vessel or any defect in the data, products, supplies, materials or equipment furnished by any member or members of the Halliburton Group whether in the design, manufacture, maintenance or marketing thereof or from a failure to warn of such defect.

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KCC WICHITA

D. EQUIPMENT LIABILITY - Customer shall at its risk and expense attempt to recover any Halliburton Group equipment lost or lodged in the well. If the equipment is recovered and repairable, Customer shall pay the repair costs, unless caused by Halliburton's sole negligence.

E. LIMITED WARRANTY - Halliburton warrants only title to the equipment, products, and materials supplied under this Contract and that same are free from defects in workmanship and materials for thirty (30) days from the date of delivery. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE.

F. GOVERNING LAW - The validity, interpretation and construction of this Contract shall be determined by the laws of the jurisdiction where the services are performed or the equipment or materials are delivered.

G. DISPUTE RESOLUTION Customer and Halliburton agree that any dispute that may arise out of the performance of this Contract shall be resolved by binding arbitration by a panel of three arbitrators under the rules of the American Arbitration Association.

H. SEVERABILITY - If any provision or part thereof of this Contract shall be held to be invalid, void, or of no effect for any reason, such holding shall not be deemed to affect the validity of the remaining provisions of this Contract which can be given effect, without the invalid provision or part thereof, and to this end, the provisions of this Contract are declared to be severable.

I. MODIFICATIONS - Customer agrees that Halliburton shall not be bound by any modifications to this Contract, except where such modification is made in writing by a duly authorized executive officer of Halliburton.

I HAVE READ AND UNDERSTAND THIS WORK ORDER CONTRACT WHICH CONTAINS RELEASE AND INDEMNITY LANGUAGE WHICH CUSTOMER ACKNOWLEDGES IS CONSPICUOUS AND AFFORDS FAIR AND ADEQUATE NOTICE AND I REPRESENT THAT I AM AUTHORIZED TO SIGN THE SAME AS CUSTOMER'S AGENT.

SIGNED: [Signature] CUSTOMER Authorized Signatory

DATE: 7-12-01 TIME: 1200

Customer Acceptance of Materials and Services


THE CUSTOMER HEREBY ACKNOWLEDGES RECEIPT OF THE MATERIALS AND SERVICES DESCRIBED ON THE ATTACHED ORDER NUMBER 1400471

[Signature] CUSTOMER Authorized Signatory

RECEIVED

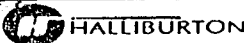
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ORIGINAL

 HALLIBURTON		<b>JOB LOG KCC WICHITA</b>		TICKET # 1400471	TICKET DATE 07/12/01
REGION NORTH AMERICA LAND		MVA / COUNTRY USA		BOA / STATE KS	COUNTY COMANCHE
MBU ID / EMPL # MCLI 1830 / 198516		H.E.S EMPLOYEE NAME JASON CLEMENS		PSL DEPARTMENT Cementing Services	
LOCATION COLDWATER		COMPANY L.D. DRILLING		CUSTOMER REP / PHONE L.D. DAVIS	
TICKET AMOUNT \$14,732.70		WELL TYPE GAS		API/WMI #	
WELL LOCATION COLDWATER		DEPARTMENT ZI		JOB PURPOSE CODE Cement Production Casing	
LEASE NAME ARLIE		Well No. 3	SEC / TWP / RNO 1-31S-20W		HES FACILITY (CLOSEST TO WELL #) LIBERAL KS

HES EMP NAME/EMPL # (EXPOSURE HOURS)	HRS	HES EMP NAME/EMPL # (EXPOSURE HOURS)	HRS	HES EMP NAME/EMPL # (EXPOSURE HOURS)	HRS	HES EMP NAME/EMPL # (EXPOSURE HOURS)	HRS
Clemens, A 198516	5						
L WHITE232712	5						
Schawo, N 222552	5						

Chart No.	Time	Rate (BPM)	Volume (BBL/GAL)	Pressure (PSI)			Job Description / Remarks
				IN	CSG	TB	
	1100						ARRIVED ON LOCATION
	1115						HELD PRE- JOB SAFTEY MEETING
	1130						SPOT EQUIP
	1145						SET UP
	1330						START F.E.
	1600	2.0	6.0				PLUG RAT & MOUSE
	1621				1500		PRESSURE TEST
	1625	6.0	62.0		241		START CEMENT
	1637						CLEAN PUMP & LINES
	1639						DROP PLUG
	1645	6.0	123.0		100		START DISP
	1658		90.0		200		CAUGHT CEMENT
	1703	2.0	114.0		536		SLOW RATE
	1709				1600		LAND PLUG
							RELEASE PRESSURE
							FLOAT HELD
							THANKS JASON & CREW.



# JOB SUMMARY

SALES ORDER NUMBER 1400471	TICKET DATE 07/12/01
BDA / STATE KS	COUNTY COMANCHE
PSL DEPARTMENT Cementing Services	<b>ORIGINAL</b>
CUSTOMER REP / PHONE L.D. DAVIS	
WELL TYPE GAS	APIWM #
DEPARTMENT ZI KCC WICHITA	SAP BOMB NUMBER 7523
	Description Cement Production Casing
	HES FACILITY (CLOSEST TO WELL SITE) LIBERAL KS

REGION NORTH AMERICA LAND	NWA / COUNTRY USA
H.E.S. EMPLOYEE NAME JASON CLEMENS	
MBU ID / EMPL # MCLI 1830 / 198516	
LOCATION COLDWATER	COMPANY L.D. DRILLING
TICKET AMOUNT \$14,732.70	WELL TYPE GAS
WELL LOCATION COLDWATER	DEPARTMENT ZI KCC WICHITA
LEASE NAME ARLIE	Well No. 3
	SEC / TWP / RNG 1-31S-20W

HES EMP NAME / EMP # / (EXPOSURE HOURS)	HRS	HRS	HRS	HRS	H
Clemens, A 198516	5.0				
L WHITE232712	5.0				
Schawo, N 222552	5.0				

H.E.S. UNIT #S / (R / T MILES)	R / T MILES	R / T MILES	R / T MILES	R / T MILES
422207	120			
54218/78202	120			
54225/6611	120			

Form. Name \_\_\_\_\_ Type: \_\_\_\_\_  
 Form. Thickness \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_  
 Packer Type \_\_\_\_\_ Set At \_\_\_\_\_  
 Bottom Hole Temp. \_\_\_\_\_ Pressure \_\_\_\_\_  
 Retainer Depth \_\_\_\_\_ Total Depth \_\_\_\_\_

Date	Called Out	On Location	Job Started	Job Completed
	7/12/01	7/12/01	7/12/01	7/12/01
Time	700	1100	1600	1710

Type and Size	Qty	Make
Float Collar		
Float Shoe		HES
Centralizers	10	
Top Plug	1	
HEAD	1	
Limit clamp		
Weld-A		
Guide Shoe	1	
BTM PLUG		

	New/Used	Weight	Size	Grade	From	To	Max. Allow
Casing	N	15.5	5 1/2		0	5,207	
Liner							
Liner							
Tubing							
Drill Pipe							
Open Hole							Shots/F
Perforations							
Perforations							
Perforations							

Materials		
Mud Type _____	Density _____	Lb/Gal _____
Disp. Fluid _____	Density _____	Lb/Gal _____
Prop. Type _____	Size _____	Lb _____
Prop. Type _____	Size _____	Lb _____
Acid Type _____	Gal. _____	% _____
Acid Type _____	Gal. _____	% _____
Surfactant _____	Gal. _____	In _____
NE Agent _____	Gal. _____	In _____
Fluid Loss _____	Ga/Lb _____	In _____
Gelling Agent _____	Ga/Lb _____	In _____
Fric. Red. _____	Ga/Lb _____	In _____
Breaker _____	Ga/Lb _____	In _____
Blocking Agent _____	Ga/Lb _____	In _____
Perfpac Balls _____	Qty. _____	
Other _____		
Other _____		
Other _____		
Other _____		
Other _____		

Hours On Location		Operating Hours		Description of Job
Date	Hours	Date	Hours	
7/12	5.0	7/12	1.0	SEE JOB LOG
Total	5.0	Total	1.0	

Ordered _____	Hydraulic Horsepower Avail. _____	Used _____
Treating _____	Average Rates in BPM Disp. _____	Overall _____
Feet 43	Cement Slurry Reason _____	SHOE JOINT

Stage	Sacks	Cement	Bulk/Sks	Additives	W/Rq.	Yield	Lbs/Gal
1	275	PREM	BULK	5% CALSEAL, 10% SALT, 5% HALAD 322, 5# GILSONITE	5.82	1.39	15.20

Summary			
Circulating Breakdown _____	Displacement _____	Preflush: BBI _____	Type: MF-1
	MAXIMUM _____	Load & Bkdn: Gal - BBI _____	Pad: Bbl - Gal _____
Average Shut In: Instant _____	Frac. Gradient _____	Treatment: Gal - BBI _____	Disp: Bbl _____
	5 Min. _____	Cement Slurry BBI _____	LC 62 BBLs
	15 Min. _____	Total Volume BBI _____	5.00

THE INFORMATION STATED HEREIN IS CORRECT  
 CUSTOMER REPRESENTATIVE L.D. Davis SIGNATURE