

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

ORIGINAL

Form ACO
September 1991
Form Must Be Type

WELL COMPLETION FORM

WELL HISTORY - DESCRIPTION OF WELL & LEASE
CORRECTION

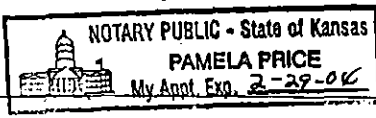
Operator: License # 32429
Name: CRAWFORD OIL & GAS, INC.
Address: PO Box 51
City/State/Zip: Coldwater, Kansas 67029
Purchaser: NA
Operator Contact Person: Mark Pinnick
Phone: (316) 582 2612
Contractor: Name: DUKE DRILLING CO., INC.
License: 5929
Wellsite Geologist: Jim Hendricks
Designate Type of Completion:
 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: BROOKS HALL (HALL-JONES)
Well Name: Oiler Unit
Original Comp. Date: 8-15-65 Original Total Depth: 6339'
 Deepening Re-perf. Conv. to Enhr./SWD
 Plug Back Plug Back Total Depth
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 SWD Other (SWD or Enhr.?) Docket No. D-27,780
7-2-00 7-6-00 7-21-00
Spud Date or Date Reached TD Completion Date or Recompletion Date

API No. 15 - 033-30004-0001
County: Comanche
C NE Sec. 12 Twp. 34 S. R. 19 East West
3300 feet from N (circle one) Line of Section
1980 feet from W (circle one) Line of Section
Footages Calculated from Nearest Outside Section Corner:
(circle one) NE SE NW SW
Lease Name: Oiler "OWW" Well #: SWD
Field Name: Buttermilk East
DISPOSAL Producing Formation: NARBUCKLE
Elevation: Ground: 1885' Kelly Bushing: 1896'
* Total Depth: 6626' Plug Back Total Depth: NA
Amount of Surface Pipe Set and Cemented at 470' Fee
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set _____ Fee
If Alternate II completion, cement circulated from _____
feet depth to _____ w/ _____ sx cmt
Drilling Fluid Management Plan REENTRY 9/23/00
(Data must be collected from the Reserve Pit)
Chloride content 55000 ppm Fluid volume 300 bbls
Dewatering method used Haul Off
Location of fluid disposal if hauled offsite:
Operator Name: BGordon Keane
Lease Name: Harmon License No.: 5993
Quarter NW Sec. 11 Twp. 33 S. R. 20 East West
County: Comanche Docket No.: 22304

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: Jim Hendricks
Title: Exploration Manager Date: 8/22/00
Subscribed and sworn to before me this 22nd day of August
2000
Notary Public: Pamela Price
Date Commission Expires: Feb. 29, 2004



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

Operator Name: CRAWFORD OIL & GAS, INC. Lease Name: Oiler Well #: SWD
 Sec. 12 Twp. 34 S. R. 19 East West County: Comanche

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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(Attach Additional Sheets)</i> 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 Electric Log Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(Submit Copy)</i> List All E. Logs Run: <p style="text-align: center;">Cement-Bond Log</p>	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
--	---

CASING RECORD <input 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
* Production	7.875	4.5	10.5#	6408'	EA 2	315	5%Ca1 10%sa

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
	Open Hole 6408'-6626'		

TUBING RECORD	Size 2 3/8	Set At 6289'	Packer At 6289'	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Enhr. WOPL		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. NA	Gas Mct NA	Water Bbls. NA	Gas-Oil Ratio

Disposition of Gas METHOD OF COMPLETION DISPOSITION OF PRODUCTION INTERVAL: 6408'-6626'

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

REGION North America	NWA/COUNTRY MidCont USA	BDA / STATE Ks	COUNTY Comanche
MRU ID / EMP # MCL10110 106328	EMPLOYEE NAME Nick Karbe	PSL DEPARTMENT Z 1	
LOCATION Liberal	COMPANY Crawford Oil & Gas	CUSTOMER REP / PHONE Mark Pennick	
TICKET AMOUNT \$ 11710.11	WELL TYPE 01	API / UWI #	
WELL LOCATION Buttermilk K5	DEPARTMENT Cement	JOB PURPOSE CODE 035 ORIGINAL	
LEASE / WELL Oller OLUW0 #1	SEC / TWP / RNG 12 -345 -1911		

HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS
N. Karbe 106328 10h			
J. Jackson 10h			
C. Garza 194445 10h			

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESS. (psig)		JOB DESCRIPTION / REMARKS
				T	C	Tog	Ceg	
	1830							called out
	2230							pa fac Held Safety mtg setup trks
								rig LDDP
	0100							st FE
	0410							Break circ
	0725							Plug RH + MH
	0821							Test lines
	0826	2	0			250		st Mud Flush
	0830	6	12/0			300		st cont 300 sks @ 15.6h
	0843		72					end cont
	0844							wash pump + line
	0846							release plug
	0847	7.5	0			100		st dis
	0856	6	10			200		catch cont
	0901	2.5	92			450		slow rate
	0905	2.5	102					Bump plug
	0906							st pres float hold

Job complete
Thank you
Nicker crew



HALLIBURTON

JOB SUMMARY

ORDER NO. 70006

TICKET #

734249

TICKET DATE

7-6-00

REGION North America	NWA/COUNTRY MidCont USA	BDA / STATE Ks	COUNTY Comanche
MBU ID / EMP # MCL10110 106328	EMPLOYEE NAME Nick Karbe	PSL DEPARTMENT 21	ORIGINAL
LOCATION Liberal	COMPANY Crawford Oil & Gas	CUSTOMER REP / PHONE Mark Pennick	
TICKET AMOUNT \$11710.11	WELL TYPE 01	API / UWI #	
WELL LOCATION Buttermilk, Ks.	DEPARTMENT Cement	JOB PURPOSE CODE 035	
LEASE / WELL # Oller 04W0 #1	SEC / TWP / RNG 12-345-19W		

HES EMP NAME/EMP#/(EXPOSURE HOURS)	HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS)	HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS)	HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS)	HRS
N. Karbe	106328	100%					
J. Jackson		100%					
C. Garza	194495	100%					

HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES
421270	2.20						
54038/77941	2.20						
540291	2.00						

Form Name _____ Type: _____
 Form Thickness _____ From _____ To _____
 Packer Type _____ Set At _____
 Bottom Hole Temp. _____ Pressure _____
 Misc. Data _____ Total Depth _____

DATE	CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
7-5-00	1830	2230	0630	0745

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY	MAKE
Float Collar L Duffle 4 1/2	1	
Float Shoe		
Guide Shoe Reg	1	
Centralizers S-4	6	
Bottom Plug		
Top Plug 4D	1	
Head		
Packer		
Other		

WELL DATA

	NEW/USED	WEIGHT	SIZE	FROM	TO	MAX ALLOW
Casing	N	10.5	4 1/2	0	6422	
Liner						
Liner						
Tbg/D.P.						
Tbg/D.P.						
Open Hole						SHOTS/FT.
Perforations						
Perforations						
Perforations						

MATERIALS

Treat Fluid	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	Gal/Lb	In
Gelling Agent	Gal/Lb	In
Fric. Red.	Gal/Lb	In
Breaker	Gal/Lb	In
Blocking Agent	Gal/Lb	
Perpac Balls	Qty.	
Other		
Other		
Other		
Other		

HOURS ON LOCATION

DATE	HOURS
7-5-00	1 1/2 hrs
7-6-00	9 hrs
TOTAL	10 1/2 hrs

OPERATING HOURS

DATE	HOURS
7-6-00	1 1/2 hrs
TOTAL	1 1/2 hrs

DESCRIPTION OF JOB

035

HYDRAULIC HORSEPOWER

ORDERED _____ Avail. _____ Used _____

AVERAGE RATES IN BPM

TREATED _____ Disp. _____ Overall _____

CEMENT LEFT IN PIPE

FEET 43' Reason shjt

CEMENT DATA

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	YIELD	LBS/GAL
	315	Prem	B	5% Calseal, 10% salt, 75% Halad-322, 5% gilsonite	1.29	15.6
	25	Prem	B	" " " "	1.29	15.6

Circulating _____ Displacement _____ Preflush: Gal - BBI _____ Type _____
 Breakdown _____ Maximum _____ Load & Bkdn: Gal - BBI _____ Pad: BBI - Gal _____
 Average _____ Frac Gradient _____ Treatment Gal - BBI _____ Disp: BBI - Gal 102
 Shut In: Instant _____ 5 Min _____ 15 Min _____ Cement Slurr Gal - BBI 72
 Total Volume Gal - BBI _____

Frac Ring #1 _____ Frac Ring #2 _____ Frac Ring #3 _____ Frac Ring #4 _____

THE INFORMATION STATED HEREIN IS CORRECT

CUSTOMER'S REPRESENTATIVE SIGNATURE
 Eugene Galbraith



JOB LOG

TICKET # **734249** TICKET DATE **7-6-00**

REGION North America	NWA/COUNTRY MidCont USA	BDA / STATE Ks	COUNTY Comanche
MBU ID / EMP # MCL10110 106328	EMPLOYEE NAME Nick Korbe	PSL DEPARTMENT Z1 ORIGINAL	
LOCATION Liberd	COMPANY Crawford Oil & Gas	CUSTOMER REP / PHONE Mark Pennick	
TICKET AMOUNT \$11710.11	WELL TYPE 01	API / UWI #	
WELL LOCATION Buttermilk Ks	DEPARTMENT Cement	JOB PURPOSE CODE 035	
LEASE / WELL 01111011	SEC / TWP / RNG 12-345-19W		

HES EMP NAME/EMP#/(EXPOSURE HOURS)	HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS)	HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS)	HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS)	HRS
N. Korbe 106328	10 1/2						
J. Jackson	10 1/2						
C. Garza 194445	10 1/2						

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESS. (psi)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
	1830							called out
	2230							on loc
								Held safety mtg
								setup trks
								rig LDDP
	0100							st FF
	0410							Break circ
	0725							Plug RH + MH
	0621							Test lines
	0626	2	0			250		st Mud Flush
	0630	6	12/0			300		st cmt 3 sks @ 15.6"
	0643		72					end cmt
	0644							wash pump & line
	0646							release plug
	0647	7.5	0			100		st disp
	0656	6	70			200		catch cmt
	0701	2.5	92			450		slow rate
	0705	2.5	102			450		Bump plug
	0706							rel pres
								float held

Job complete
Thank you
Nick & crew



Work Order Contract

ORIGINAL

Order Number

734249

Halliburton Energy Services, Inc.
Houston Texas 77056

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:

Well No. 1	Farm or Lease <i>Other DWVO</i>	County <i>Comanche</i>	State <i>Ks</i>	Well Permit #
Customer <i>Crawford Oil & Gas</i>	Well Owner <i>Same</i>	Job Purpose <i>035</i>		

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. If Customer has an approved open account, invoices are payable on the twentieth day after the date of invoice. Customer agrees to pay interest on any unpaid balance from the date payable until paid at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event Halliburton employs an attorney for collection of any account, Customer agrees to pay attorney fees of 20% of the unpaid account, or Halliburton's actual attorneys fees, whichever is greater, plus all collection and court costs. Customer agrees that the amount of attorney fees set out herein are reasonable and necessary.**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. Customer also agrees to **DEFEND, INDEMNIFY, AND HOLD** Halliburton Group **HARMLESS** from and against any and all liability, claims, costs, expenses, attorney fees and damages whatsoever for personal injury; illness, death, property damage and loss resulting from:

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 unseaworthiness 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. "Halliburton Group" is defined as Halliburton Energy Services, Inc., its parent, subsidiary, and affiliated companies, insurers and subcontractors and all its/their officers, directors, employees, consultants and agents. **CUSTOMER'S RELEASE, DEFENSE, INDEMNITY AND HOLD HARMLESS** obligations apply whether the personal injury, illness, death, property damage or loss is suffered by one or more members of the Halliburton Group, Customer, or any other person or entity. Customer agrees to support such obligations assumed herein with liability insurance with limits of not less than \$500,000. Customer agrees to name Halliburton Group as named additional insureds on all of its general liability policy(s). Customer agrees that its liability under this Contract is not limited by the amounts of its insurance coverage, except where and as may be required by applicable local law for the provisions of this Contract to be enforceable.**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. If the equipment is not recovered or is irreparable, Customer shall pay the replacement cost, unless caused by Halliburton's sole negligence. If a radioactive source becomes lost or lodged in the well, Customer shall meet all requirements of Section 39.15(a) of the Nuclear Regulatory Commission regulations and any other applicable laws or regulations concerning retrieval or abandonment and shall permit Halliburton to monitor the recovery or abandonment efforts all at no risk or liability to Halliburton Group. Customer shall be responsible for damage to or loss of Halliburton group equipment, products, and materials while in transit aboard Customer-supplied transportation, even if such is arranged by Halliburton at Customer's request, and during loading and unloading from such transport. Customer will also pay for the repair or replacement of Halliburton group equipment damaged by corrosion or abrasion due to well effluents.**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.** Halliburton's sole liability and Customer's exclusive remedy in any cause of action (whether in contract, tort, breach of warranty or otherwise) arising out of the sale, lease or use of any equipment, products, or materials is expressly limited to the replacement of such on their return to Halliburton or, at Halliburton's option, to the allowance to Customer of credit for the cost of such items. In no event shall Halliburton be liable for special, incidental, indirect, consequential, or punitive damages. Because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, **HALLIBURTON IS UNABLE TO GUARANTEE THE EFFECTIVENESS OF THE EQUIPMENT, MATERIALS, OR SERVICE, NOR THE ACCURACY OF ANY CHART INTERPRETATION, RESEARCH ANALYSIS, JOB RECOMMENDATION OR OTHER DATA FURNISHED BY HALLIBURTON GROUP.** Halliburton personnel will use their best efforts in gathering such information and their best judgment in interpreting it, but Customer agrees that Halliburton Group shall not be liable for and **CUSTOMER SHALL INDEMNIFY HALLIBURTON GROUP AGAINST ANY DAMAGES ARISING FROM THE USE OF SUCH INFORMATION**, even if such is contributed to or caused by the active or passive negligence, fault or strict liability of any member or members of Halliburton Group. Halliburton also does not warrant the accuracy of data transmitted by electronic process, and Halliburton will not be responsible for accidental or intentional interception of such data by third parties.**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. The arbitration will take place in Houston, TX.**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. Customer and Halliburton agree that any provision of this Contract that is unenforceable or void under applicable law will be modified to achieve the intent of the parties hereunder to the greatest extent allowed by applicable law.**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. Requests for modifications should be directed to the Vice President - Legal, 4100 Clinton Drive, Houston, TX, 77020.

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: _____ DATE: 7-6-00 TIME: 2330 A.M./P.M.

CUSTOMER Authorized Signatory

Customer Acceptance of Materials and ServicesTHE CUSTOMER HEREBY ACKNOWLEDGES RECEIPT OF THE MATERIALS AND SERVICES DESCRIBED ON THE ATTACHED ORDER NUMBER 734249

Eugene [Signature]
CUSTOMER Authorized Signatory

White-Office

Canary-Field Office

Pink-Customer

Green-Retain

ALLIBURTON

JOB LOG

ORDER NO. 70006

TICKET #

734249

TICKET DATE

26-00

North America	NWA/COUNTRY MidEast USA	BDA / STATE Ks	COUNTY Comanche
EMP # 110110 106328	EMPLOYEE NAME Nick Karbe	PSL DEPARTMENT 21	ORIGINAL
LOCATION Liberal	COMPANY Crawford Oil & Gas	CUSTOMER REP / PHONE Mark Pennick	
BUCKET AMOUNT \$11710.11	WELL TYPE 01	API / UWI #	
WELL LOCATION Batter milk Ks	DEPARTMENT Cement	JOB PURPOSE CODE 035	
LEASE / WELL Olla OLW0 #1	SEC / TWP / RNG 12-345-19W		

HES EMP NAME/EMP#/(EXPOSURE HOURS)	HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS)	HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS)	HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS)	HRS
N. Karbe	106328	10h					
J. Jackson		10h					
C. Garza	194445	10h					

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESS. (psi)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
	1030							called out
	1035							ps lac
	1230							Held Safety mtg setup trks
								rig LDDP
	0100							st FF
	0410							Break circ
	0725							Plug RH + MH
	0621							Test lines
	0626	2	0			250		st Mud Flush
	0630	6	12/0			300		st cmt 300 sks @ 1506"
	0643		72					end cmt
	0644							wash pump & line
	0646							release plug
	0647	7.5	0			100		st disp
	0656	6	70			200		catch cmt
	0701	2.5	92			450		slow rate
	0705	2.5	102			450		Bump plug
	0706							reg pres float held

Job complete
Thank you
Nick & crew

JOB SUMMARY

ORDER NO. 70006

TICKET #

734249

TICKET DATE

7-6-00

REGION North America	NWA/COUNTRY MidCont USA	BDA / STATE Ks	COUNTY Comanche
MBU ID / EMP # MCL10110 106328	EMPLOYEE NAME Nick Karbe	PSL DEPARTMENT 21	
LOCATION Liberal	COMPANY Crawford Oil & Gas	CUSTOMER REP / PHONE Mark Pennick	ORIGINAL
TICKET AMOUNT \$11710.11	WELL TYPE 01	API / UWI #	
WELL LOCATION Buttermilk Ks.	DEPARTMENT Cement	JOB PURPOSE CODE 035	
LEASE / WELL # Offer 04W0 #1	SEC / TWP / RNG 12-345-19W		

HES EMP NAME/EMP#/(EXPOSURE HOURS)	HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS)	HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS)	HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS)	HRS
N. Karbe 106328	10 1/2						
J. Jackson	10 1/2						
C. Garza 194495	10 1/2						

HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILE
421270	220						
54038/77941	220						
540291	200						

Form Name _____ Type: _____
 Form Thickness _____ From _____ To _____
 Packer Type _____ Set At _____
 Bottom Hole Temp. _____ Pressure _____
 Misc. Data _____ Total Depth _____

DATE	TIME	CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
7-5-00	1830	7-5-00	2230	7-6-00	0630
					0745

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY	MAKE
Float Collar $4\frac{1}{2}$ L Duffle	1	
Float Shoe		
Guide Shoe Reg	1	
Centralizers 5-4	6	
Bottom Plug		
Top Plug 4.D.	1	
Head		
Packer		
Other		

WELL DATA

	NEW/USED	WEIGHT	SIZE	FROM	TO	MAX ALLO'
Casing	N	10.5	$4\frac{1}{2}$	0	6422	
Liner						
Liner						
Tbg/D.P.						
Tbg/D.P.						
Open Hole						SHOTS/F'
Perforations						
Perforations						
Perforations						

MATERIALS

Treat Fluid	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	Gal/Lb	In
Gelling Agent	Gal/Lb	In
Fric. Red.	Gal/Lb	In
Breaker	Gal/Lb	In
Blocking Agent	Gal/Lb	
Perpac Balls	Qty.	
Other		
Other		
Other		
Other		

HOURS ON LOCATION		OPERATING HOURS		DESCRIPTION OF JOB
DATE	HOURS	DATE	HOURS	
7-5-00	1 1/2 hrs	7-6-00	1 1/2 hr	035
7-6-00	9 hrs			
TOTAL	10 1/2 hrs	TOTAL	1 1/2 hr	

ORDERED _____ HYDRAULIC HORSEPOWER _____
 Avail. _____ Used _____
 TREATED _____ AVERAGE RATES IN BPM _____
 Disp. _____ Overall _____
 FEET 43' CEMENT LEFT IN PIPE _____
 Reason sh jt

CEMENT DATA

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	YIELD	LBS/GA
	315	Prem	B	5% Calseal, 10% salt, 75% Halad-322, 5% gilsonite	1.29	15.6
	25	Prem	B	" " " " " "	1.29	15.6

Circulating Breakdown	Displacement	Preflush:	Gal - BBI	Type
Average	Maximum	Load & Bkdn:	Gal - BBI	Pad: BBI - Gal
Shut In: Instant	Frac Gradient	Treatment	Gal - BBI	Disp: BBI - Gal 102
	5 Min	Cement Slurr	Gal - BBI 72	
	15 Min	Total Volume	Gal - BBI	

Frac Ring #1 _____ Frac Ring #2 _____ Frac Ring #3 _____ Frac Ring #4 _____

THE INFORMATION STATED HEREIN IS CORRECT

CUSTOMER'S REPRESENTATIVE SIGNATURE
 Eugene Johnson