

AMENDED

SIDE ONE

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION

WELL COMPLETION OR RECOMPLETION FORM
ACO-1 WELL HISTORY

DESCRIPTION OF WELL AND LEASE

Operator: license # 8759
name Mack Energy Co.
address P.O. Box 400
City/State/Zip Duncan, OK 73534

Operator Contact Person O.D. Mellott
Phone (405) 233-6230

Contractor: license # 5146
name Rains & Williamson Oil Co., Inc.

Wellsite Geologist Casey Galloway
Phone (316) 267-7355

PURCHASER Permian Oil Corp.

Designate Type of Completion
 New Well Re-Entry

Oil SWD Temp Abd
 Gas Inj Delayed Comp.
 Dry Other (Core, Water Supply etc.)

If OWWO: old well info as follows:
Operator
Well Name
Comp. Date Old Total Depth

WELL HISTORY

Drilling Method: Mud Rotary Air Rotary Cable
3-07-88 3-15-88 4-04-88
Spud Date Date Reached TD Completion Date
4470'
Total Depth PBD

Amount of Surface Pipe Set and Cemented at 235 feet
Multiple Stage Cementing Collar Used? Yes No
If Yes, Show Depth Set feet

If alternate 2 completion, cement circulated
from 939 feet depth to surface w/ 200 SX cmt
Cement company name Halliburton
Invoice # 619866
6-27-88

API NO. 15-135-23,207-0000
County Ness
C NW SW Sec 31 Twp 17S Rge 23

1980 Ft North from Southeast Corner of Section
4620 Ft West from Southeast Corner of Section
(Note: locate well in section plat below)

Lease Name LULA Well# #2
Field Name Pfannenstiel Ext. Miner
Producing Formation Cherokee Sand
Elevation: Ground 2375 GL KB 2384 KB

Section Plat

Section Plat grid with elevations: 5280, 4950, 4620, 4290, 3960, 3630, 3300, 2970, 2640, 2310, 1980, 1650, 1320, 990, 660, 330

RECEIVED
STATE CORPORATION COMMISSION
JUN 23 1988
6-23-88
CONSERVATION DIVISION
Wichita, Kansas

WATER SUPPLY INFORMATION

Source of Water:
Division of Water Resources Permit #
 Groundwater (Well) Ft North From Southeast Corner and Ft. West From Southeast Corner of Sec Twp Rge East West
 Surface Water (Stream, Pond etc.) Ft North From Southeast Corner and Ft West From Southeast Corner Sec Twp Rge East West
Drilling contractor purchased water from Steve Potter, Box 12, Arnold, KS
 Other (explain) (purchased from city, R.W.D.#)

Disposition of Produced Water: Disposal Repressuring
Docket #

INSTRUCTIONS: This form shall be completed in duplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 90 days after completion or recompletion of any well. Rules 82-3-130 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 drillers time log shall be attached with this form. 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 Gordon C. Demillion
Title Production Supervisor Date 6-13-88

Subscribed and sworn to before me this 14th day of June 19 88.
Notary Public Jackie M. Cannon
Date Commission Expires 7-22-89

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)

Sec 31 Twp 17S Rge 23

Operator Name **MACK ENERGY CO.** Lease Name **LULA** Well# **2** SEC. **31** TWP. **17S** RGE. **23** West
 Ness County, KS

WELL LOG

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests, interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken Yes No
 Samples Sent to Geological Survey Yes No
 Cores Taken Yes No

Formation Description
 Log Sample

DST #1 Cherokee (4358'-4390')
 IHH - FHH 2196-2174
 IFP 286-307 (15 Min.)
 ISIP 942 (30 min.)
 FFP 317-328 (60 min.)
 FSIP 900 (60 min.)
 Red: 130' GIP + 730' FO (API Grav. 41)

Name	Top	Bottom
Anhydrite	1668	(+705)
Heebner	3752	(-1369)
Lansing	3790	(-1407)
B/K.C.	4082	(-1699)
Pawnee	4199	(-1816)
Ft. Scott	4285	(-1902)
Cherokee Shale	4310	(-1927)
Cherokee Sand	4372	(-1989)
Mississippi	4404	(-2021)
DTD	4470'	
LTD	4465'	

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"	20#	235'	60/40 Poz	150	2% Gel 3% CC
production	7-7/8"	4-1/2"	10.5#	4482'	50/50 Poz	125	10% Salt 3/40 F 1% CFR -2 + 10% Gil/sx.

PERFORATION RECORD

Acid, Fracture, Shot, Cement Squeeze Record

shots per foot	specify footage of each interval perforated	(amount and kind of material used)	Depth
2	4374 - .86 & 4362 - .64	750 Gal 7-1/2% Pad Acid	4362-4386

TUBING RECORD size **2-3/8"** set at **4373** packer at **N/A**

Liner Run Yes No

Date of First Production **3/28/88** Producing method flowing pumping gas lift Other (explain)

Estimated Production Per 24 Hours	Oil	Gas	Water	Gas-Oil Ratio	Gravity
	35 Bbls	0 MCF	40 Bbls	CFPB	41°

METHOD OF COMPLETION

PRODUCTION INTERVAL

Disposition of gas: vented sold used on lease
 open hole perforation other (specify)
 Dually Completed Commingled
 Production Interval: **4362-4386**

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

Operator: License # 8759
Name Mack Energy Co.
Address P.O. Box 400
City/State/Zip Duncan, OK 73534

Purchaser Permian

Operator Contact Person O.D. Mellott
Phone (405) 233-6230

Contractor: License # 5146
Name Rains & Williamson Oil Co., Inc.

Wellsite Geologist Casey Galloway
Phone (316) 267-7355

Designate Type of Completion
 New Well Re-Entry Workover
 Oil SWD Temp Abd
 Gas Inj Delayed Comp.
 Dry Other (Core, Water Supply etc.)

If OMNO: old well info as follows:
Operator
Well Name
Comp. Date Old Total Depth

WELL HISTORY

Drilling Method:
 Mud Rotary Air Rotary Cable
3-7-88 3-15-88 4-04-88
Spud Date Date Reached TD Completion Date
4470'
Total Depth PBDT

Amount of Surface Pipe Set and Cemented at 235 feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set feet
If alternate 2 completion, cement circulated from 235 feet depth to surf. / 150. sx cmt
Cement Company Name Halliburton
Invoice # 619879

API NO. 15-135-23,207
County Ness
C NW SW Sec. 31 Twp. 17S Rge. 23 East
1980 Ft North from Southeast Corner of Section
4620 Ft West from Southeast Corner of Section
(Note: Locate well in section plat below)

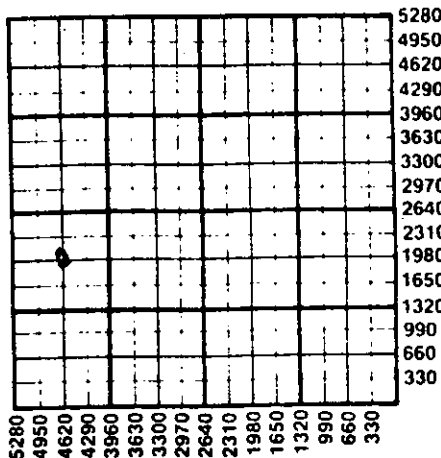
Lease Name LULA Well # 2

Field Name Pfannenstiel Ext Miner

Producing Formation Cherokee Sand

Elevation: Ground 2375 GL 2384 KB

Section Plat



WATER SUPPLY INFORMATION

Disposition of Produced Water: Disposal
Docket # 16461 Repressuring

Questions on this portion of the ACO-1 call:
Water Resources Board (913) 296-3717

Source of Water:
Division of Water Resources Permit #

Groundwater Ft North from Southeast Corner (Well) Ft West from Southeast Corner of Sec Twp Rge East West

Surface Water Ft North from Southeast Corner (Stream, pond etc) Ft West from Southeast Corner Sec Twp Rge East West

*Drilling contractor purchased water from Steve Potter, Box 12, Arnold, KS
Other (explain) (purchased from city, R.W.D. #)

INSTRUCTIONS: This form shall be completed in triplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date of any well. Rule 82-3-130, 82-3-107 and 82-3-106 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 drillers time log shall be attached with this form. 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 Nansen
Title Geologist Date 4-25-88

Subscribed and sworn to before me this 25 day of April 1988.
Notary Public Jean Edwards
Date Commission Expires July 22, 1989

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)
4-27-88

CONSERVATION DIVISION
Wichita, Kansas

Operator Name MACK ENERGY CO. Lease Name LULA Well # 2

Sec. 31 Twp. 17S Rge. 21 East West County Ness

WELL LOG

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
 Samples Sent to Geological Survey Yes No
 Cores Taken Yes No

Formation Description
 Log Sample

Name	Top	Bottom
Anhydrite	1668 (+705)	
Heebner	3752 (-1369)	
Lansing	3790 (-1407)	
B/K.C.	4082 (-1699)	
Pawnee	4199 (-1816)	
Ft. Scott	4285 (-1902)	
Cherokee Shale	4310 (-1927)	
Cherokee Sand	4372 (-1989)	
Mississippi	4404 (-2021)	
DTD	4470'	
LTD	4465'	

DST #1 Cherokee (4358'-4390')

IHH - FHH 2196-2174
 IFP 286-307 (15 min.)
 ISIP 942 (30 min.)
 FFP 317-328 (60 min.)
 FSIP 900 (60 min.)

Red: 130' GIP + 730' FO (API Grav. 41)

CASING RECORD <input type="checkbox"/> New <input checked="" 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 production	12-1/4"	8-5/8"	20#	235'	60/40 Poz	150	2% Gel 3% CC
	7-7/8"	4-1/2"	10.5#	4482'	50/50 Poz	125	10% salt 3/40 F 1% CCR -2 + 10% Gt/sx.
PERFORATION RECORD				Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)			
Shots Per Foot	Specify Footage of Each Interval Perforated					Depth	
2	4374 - 86 & 4362 - 64			750 Gal 7-1/2% Pad Acid		4362-4386	
TUBING RECORD				Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No			
Date of First Production		Producing Method					
3/28/88		<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	Gas	Water	Gas-Oil Ratio	Gravity	
35 Bbls		0 MCF	40 Bbls	CFPB	41 °		

METHOD OF COMPLETION

Production Interval

Disposition of gas: Vented Sold Used on Lease Open Hole Perforation Other (Specify)
 Dually Completed Conmingled

4362-4385

DRILLER'S LOG

COMPANY: Mack Energy Co.

SEC. 31 T. 17S R. 23W

WELL NAME: LULA #2

LOC. C NW SW

COUNTY: Ness

RIG NO. #2

TOTAL DEPTH 4470'

ELEVATION 2375 GL 2384 KB

COMMENCED: 3-7-88

COMPLETED: 3-15-88

CONTRACTOR: Rains & Williamson Oil Co., Inc.

CASING RECORD:

SURFACE: 8 5/8" @ 235' w/150 sx. 60-40 poz., 2% gel, 3% cc

PRODUCTION: 4 1/2" @ 4469' w/125 sx. 50-50 poz., 10% salt, 3/4%

LOG

(Figures Indicate Bottom of Formations)

Shale and Lime	1655
Sand and Shale	1671
Anhydrite	1704
Sand and Shale	2075
Shale and Lime	2729
Lime and Shale	2789
Shale and Lime	3060
Lime and Shale	3295
Shale and Lime	3475
Lime and Shale	3880
Shale and Lime	3980
Lime and Shale	4135
Shale and Lime	4255
Lime and Shale	4470
Rotary Total Depth	4470

RECEIVED
STATE CORPORATION COMMISSION

APR 27 1988

CONSERVATION DIVISION
Wichita, Kansas

STATE OF KANSAS)

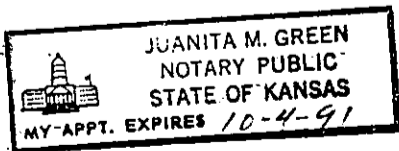
COUNTY OF SEDGWICK)

SS:

I, WILSON RAINS, PRESIDENT of RAINS & WILLIAMSON OIL CO., INC.

upon oath state that the above and foregoing is a true and correct copy of the log of the

LULA #2 well.



Wilson Rains
WILSON RAINS

Subscribed and sworn to before me this 17th day of March, 1988.

My Appointment Expires:

10-4-91

Juanita M. Green
Juanita M. Green - Notary Public

A Division of Halliburton Company

FORM 1906 R-11

WELL NO. / FARM OR LEASE NAME #2 Lula		COUNTY Ness	STATE KS	CITY / OFFSHORE LOCATION	DATE 6/1/88
CHARGE TO Mack Energy Co		OWNER Same	TICKET TYPE (CHECK ONE) SERVICE <input checked="" type="checkbox"/> SALES <input type="checkbox"/>		NITROGEN JOB YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>
ADDRESS		CONTRACTOR Mize Well Serv	LOCATION 1 Ness City		CODE 50353
CITY, STATE, ZIP Duncan OK		SHIPPED VIA 3580	FREIGHT CHARGES <input type="checkbox"/> PPD <input type="checkbox"/> COLLECT		LOCATION 2 Hays
WELL TYPE 01	WELL CATEGORY 02	WELL PERMIT NO.	DELIVERED TO Loc		LOCATION 3
TYPE AND PURPOSE OF JOB 60		ORDER NO. B-654942	REFERRAL LOCATION		

As consideration, the above-named Customer agrees to pay Halliburton in accord with the rates and terms stated in Halliburton's current price lists. Invoices payable NET by the 20th of the following month after date of invoice. Upon Customer's default in payment of Customer's account by the last day of the month following the month in which the invoice is dated, Customer agrees to pay interest thereon after default at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event it becomes necessary to employ an attorney to enforce collection of said account, Customer agrees to pay all collection costs and attorney fees in the amount of 20% of the amount of the unpaid account. These terms and conditions shall be governed by the law of the state where services are performed or equipment or materials are furnished...

Halliburton warrants only title to the products, supplies and materials and that the same are free from defects in workmanship and materials. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Halliburton's liability and customer's exclusive remedy in any cause of action (whether in contract, tort, product liability, breach of warranty or otherwise) arising out of the sale or use of any products, supplies or materials is expressly limited to the replacement of such products, supplies or materials on their return to Halliburton or, at Halliburton's option, to the allowance to the customer of credit for the cost of such items. In no event shall Halliburton be liable for special, incidental, indirect, punitive or consequential damages.

PRICE REFERENCE	SECONDARY REF OR PART NO.	L O C	ACCOUNT	DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT
					QTY	MEAS	QTY	MEAS		
000-117		1		MILEAGE		6 mi			2.10	12.60
009-134	009019	1		pump chg		938'				642.96
510-222		1		20-40 sack sand		2 SK			7.95	
THIS IS NOT AN INVOICE										
RECEIVED STATE CORPORATION COMMISSION JUN 1 9 1988										

AS PER ATTACHED-BULK MATERIAL DELIVERY TICKET NO. **B-654942** SUB TOTAL **1319.13**

WAS JOB SATISFACTORILY COMPLETED? _____

WAS OPERATION OF EQUIPMENT SATISFACTORY? _____

WAS PERFORMANCE OF PERSONNEL SATISFACTORY? _____

CUSTOMER OR HIS AGENT (PLEASE PRINT)
D. Noland

CUSTOMER OR HIS AGENT (SIGNATURE)

WE CERTIFY THAT THE FAIR LABOR STANDARDS ACT OF 1938, AS AMENDED HAS BEEN COMPLIED WITH IN THE PRODUCTION OF GOODS AND OR WITH RESPECT TO THE SERVICES FURNISHED UNDER THIS CONTRACT.

D. Noland
HALLIBURTON OPERATOR

HALLIBURTON APPROVAL _____

CUSTOMER

APPLICABLE TAXES WILL BE ADDED ON INVOICE.

JOB LOG

RECEIVED NO. _____ LEASE _____
 CUSTOMER Mack Energy Co PAGE NO. _____
 JOB TYPE Squeeze DATE 6/9/88

FORM 2013 R-2

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0730							on loc at Requested time
	0830						2000	test RBP Down (sg) okay
	1115							S. + R.H. at 272'
	1130						500	Load annulus
	1135	2	0			200	"	take Rate Down by three feet
			12					well case at Bradenhead
	1145		0			150	"	Start out HLC (150 ST)
	1210	2						140 ST reduced case cont out of Bradenhead
	1212		47			200	"	finish out HLC
	1212	1				200	"	Start 50 ST Class 3/4 cc
	1217	2				200	"	Finish 100 ft cont Class Bradenhead
	1220					150	"	start DISP
	1223		1			150	"	Disp 1 bbl + stage cont
	1232		1			150	"	Disp 1 bbl + stage cont
	1240		1/2			150	"	Disp 1/2 bbl + stage cont
	1300		1/2			200	"	Disp 1/2 bbl + stage cont
	1330		1/2			200	"	Disp 1/2 bbl + stage cont
	1430		1/4			200	"	Disp 1/4 " " "
	1540		1/4			200	"	Disp 1/4 " " "
	1550							Cont out about 4 DISP cont down
	1600	1 1/2	6			150		Reverse out around pka
	1615							Start R.H. out of hole
								tools out of hole
								well only out approx 40' cont
								6/10/88
								Job complete
								D Noland 1511X
								K Carter
								M Childers

RECEIVED
STATE CORPORATION COMMISSION

JUN 16 1988

CONSERVATION DIVISION
Wichita, Kansas

CUSTOMER

FORM 1908 R-6

A Halliburton Company

DISTRICT Ness City KS

DATE 6/9/88

TO: HALLIBURTON SERVICES YOU ARE HEREBY REQUESTED TO FURNISH EQUIPMENT AND SERVICEMEN TO DELIVER AND OPERATE THE SAME AS AN INDEPENDENT CONTRACTOR TO: Mack Energy Co (CUSTOMER) AND DELIVER AND SELL PRODUCTS, SUPPLIES, AND MATERIALS FOR THE PURPOSE OF SERVICING

WELL NO. 2 LEASE Lula SEC. 31 TWP. 17 RANGE 23
FIELD _____ COUNTY Ness STATE Ks OWNED BY Mack Energy Co

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT

FORMATION NAME _____ TYPE _____
FORMATION THICKNESS _____ FROM _____ TO _____
PACKER: TYPE R+ts SET AT 872
TOTAL DEPTH _____ MUD WEIGHT _____
BORE HOLE _____
INITIAL PROD: OIL _____ BPD, H₂O _____ BPD, GAS _____ MCF
PRESENT PROD: OIL _____ BPD, H₂O _____ BPD, GAS _____ MCF

	NEW USED	WEIGHT	SIZE	FROM	TO	MAX. ALLOW. P.S.I.
CASING	<u>U</u>	<u>10 1/2</u>	<u>4 1/2</u>	<u>top</u>	<u>4482</u>	
LINER						
TUBING	<u>U</u>	<u>4.70</u>	<u>2 3/4</u>	<u>top</u>	<u>872</u>	
OPEN HOLE						SHOTS/FT.
PERFORATIONS				<u>938</u>		<u>2</u>
PERFORATIONS						
PERFORATIONS						

PREVIOUS TREATMENT: DATE _____ TYPE _____ MATERIALS _____
TREATMENT INSTRUCTIONS: TREAT THRU TUBING ANNULUS CASING TUBING/ANNULUS HYDRAULIC HORSEPOWER ORDERED _____

Cement thru hole at 938' to surf

CUSTOMER OR HIS AGENT WARRANTS THE WELL IS IN PROPER CONDITION TO RECEIVE THE PRODUCTS, SUPPLIES, MATERIALS, AND SERVICES

- As consideration, the above-named Customer agrees: THIS CONTRACT MUST BE SIGNED BEFORE WORK IS COMMENCED
- (a) To pay Halliburton in accord with the rates and terms stated in Halliburton's current price lists.
 - (b) Halliburton shall not be responsible for and Customer shall secure Halliburton against any liability for damage to property of Customer and of the well owner (if different from Customer), unless caused by the willful misconduct or gross negligence of Halliburton; this provision applying to but not limited to: subsurface damage and surface damage arising from subsurface damage.
 - (c) Customer shall be responsible for and secure Halliburton against any liability for reservoir loss or damage, or property damage resulting from subsurface pressure, losing control of the well and/or a well blowout, unless such loss or damage is caused by the willful misconduct or gross negligence of Halliburton.
 - (d) Customer shall be responsible for and secure Halliburton against any and all liability of whatsoever nature for damages as a result of subsurface trespass, or an action in the nature thereof, arising from a service operation performed by Halliburton hereunder.
 - (e) Customer shall be responsible for and secure Halliburton against any liability for injury to or death of persons, other than employees of Halliburton, or damage to property (including, but not limited to, injury to the well), or any damages whatsoever, irrespective of cause, growing out of or in any way connected with the use of radioactive material in the well hole, unless such damage shall be caused by the willful misconduct or gross negligence of Halliburton.
 - (f) Halliburton makes no guarantee of the effectiveness of the products, supplies or materials, nor of the results of any treatment or service.
 - (g) To the extent permitted by law, waives the provisions of the Deceptive Trade Practices - Consumer Protection Act.
 - (h) Customer shall, at its risk and expense, attempt to recover any Halliburton equipment, tools or instruments which are lost in the well and if such equipment, tools or instruments are not recovered, Customer shall pay Halliburton its replacement cost unless such loss is due to the sole negligence of Halliburton. If Halliburton equipment, tools or instruments are damaged in the well, Customer shall pay Halliburton the lesser of its replacement cost or the cost of repairs unless such damage is caused by the sole negligence of Halliburton. In the case of equipment, tools or instruments for marine operations, Customer shall, in addition to the foregoing, be fully responsible for loss of or damage to any of Halliburton's equipment, tools or instruments which occurs at any time after delivery to Customer at the landing until returned to the landing, unless such loss or damage is caused by the sole negligence of Halliburton.
 - (i) 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 accuracy of any chart, interpretation, research analysis, job recommendation or other data furnished by Halliburton. Halliburton personnel will use their best efforts in gathering such information and their best judgment in interpreting it, but Customer agrees that Halliburton shall not be responsible for any damages arising from the use of such information except where due to Halliburton's gross negligence or willful misconduct in the preparation or furnishing of it.
 - (j) Halliburton warrants only title to the products, supplies and materials and that the same are free from defects in workmanship and materials. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Halliburton's 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 or use of any products, supplies or materials is expressly limited to the replacement of such products, supplies or materials on their return to Halliburton or, at Halliburton's option, to the allowance to the Customer of credit for the cost of such items. In no event shall Halliburton be liable for special, incidental, indirect, punitive or consequential damages.
 - (k) Invoices payable NET by the 20th of the following month after date of invoice. Upon Customer's default in payment of Customer's account by the last day of the month following the month in which the invoice is dated, Customer agrees to pay interest thereon after default at the highest lawful contract rate applicable but never to exceed 18% per annum. In the event it becomes necessary to employ an attorney to enforce collection of said account, Customer agrees to pay all collection costs and attorney fees in the amount of 20% of the amount of the unpaid account.
 - (l) This contract shall be governed by the laws of the state where services are performed or equipment or materials are furnished.
 - (m) Halliburton shall not be bound by any changes or modifications to this contract, except where such change or modification is made in writing by a duly authorized executive officer of Halliburton.

STATE RECEIVED
SEAL CORRELATION COMMISSION

JUN 16 1988

I HAVE READ AND UNDERSTAND THIS CONTRACT AND REPRESENT THAT I AM AUTHORIZED TO SIGN THE SAME AS CUSTOMER'S AGENT.

SIGNED X CUSTOMER
DATE 6/9/88
TIME 10:00 A.M. P.M.

We certify that the Fair Labor Standards Act of 1938, as amended, has been complied with in the production of goods and/or with respect to services furnished under this contract.

CUSTOMER

**BULK MATERIALS DELIVERY
AND
TICKET CONTINUATION**



FOR INVOICE AND TICKET NO. 619866

DATE 6-9-88	CUSTOMER ORDER NO.	WELL NO. AND FARM Lula #2	COUNTY Ness	STATE Kansas
CHARGE TO Mack Energy		OWNER Same	CONTRACTOR No. B 654942	
MAILING ADDRESS		DELIVERED FROM Hays, Ks	LOCATION CODE 50325	PREPARED BY Kuhn
CITY & STATE		DELIVERED TO N/W Ness Dity, Ks	TRUCK NO. 0818	RECEIVED BY <i>D Nolan</i>

PRICE REFERENCE	SECONDARY REF. OR PART NO.	CODE		DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT
		L	D		QTY.	MEAS.	QTY.	MEAS.		
504-118		2	B	Halliburton Light Cement	150				4.92	738 00
504-308	516.00261	2	B	Standard Cement	50				5.45	272 50
509-406	890.50812	2	B	Calcium Chloride Blended	1				25.75	25 75
507-210	890.50071	2	B	Flocele Blended	38 lb				1.21	45 98
<div style="transform: rotate(-45deg); opacity: 0.5; font-size: 2em; font-weight: bold;">THIS IS NOT AN INVOICE</div>										
				Returned Mileage Charge						
				TOTAL WEIGHT		LOADED MILES		TON MILES		
				SERVICE CHARGE ON MATERIALS RETURNED				CU. FEET		
500-207		2	B	STATE CORPORATION COMMISSION				202	.95	191 90
500-322		2	B	Mileage Charge	18,648	6		55.944 Minimum	Min	45 00
No. B 654942					CARRY FORWARD TO INVOICE				SUB-TOTAL	1,319 13

JOB SUMMARY

HALLIBURTON
LOCATION

Ness City KS

BILLED ON TICKET NO. 619266

FORM 5023

WELL DATA

FIELD _____ SEC. 31 TWP. 17 RNG. 23 COUNTY Ness STATE Ks

FORMATION NAME _____ TYPE _____

FORMATION THICKNESS _____ FROM _____ TO _____

INITIAL PROD: OIL _____ SPD. WATER _____ SPD. GAS _____ MCFD _____

PRESENT PROD: OIL _____ SPD. WATER _____ SPD. GAS _____ MCFD _____

COMPLETION DATE _____ MUD TYPE _____ MUD WT. _____

PACKER TYPE R775 SET AT 872

BOTTOM HOLE TEMP. _____ PRESSURE _____

MISC. DATA _____ TOTAL DEPTH _____

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	U	10 1/2	4 1/2	TOP	4482	
LINER						
TUBING	U	4 7/8	2 7/8	TOP	872	
OPEN HOLE						SHOTS/FT.
PERFORATIONS					938	2
PERFORATIONS						
PERFORATIONS						

JOB DATA

CALLED OUT DATE	ON LOCATION DATE	JOB STARTED DATE	JOB COMPLETED DATE
6/19/88	6/19/88	6/19/88	
TIME 0600	TIME 0730	TIME 0830	

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
D Noland K Carter	3520 Camber	Ness City
M Childers		Hays Ks

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS		
BOTTOM PLUG		
TOP PLUG		
HEAD		
PACKER		
OTHER		

MATERIALS

TREAT. FLUID _____ DENSITY _____ LB./GAL. API

DISPL. FLUID _____ DENSITY _____ LB./GAL. API

PROP. TYPE _____ SIZE _____ LB.

PROP. TYPE _____ SIZE _____ LB.

ACID TYPE _____ GAL.

ACID TYPE _____ GAL.

ACID TYPE _____ GAL.

SURFACTANT TYPE _____ GAL. IN

NE. AGENT TYPE _____ GAL. IN

FLUID LOSS ADD. TYPE _____ GAL.-LB. IN

GELLING AGENT TYPE _____ GAL.-LB. IN

FRIC. RED. AGENT TYPE _____ GAL.-LB. IN

BREAKER TYPE _____ GAL.-LB. IN

BLOCKING AGENT TYPE _____ GAL.-LB.

PERFPAC BALLS TYPE _____ QTY.

OTHER _____

OTHER _____

DEPARTMENT Cement

DESCRIPTION OF JOB Cement thin hole at 938' to Seal

JOB DONE THRU: TUBING CASING ANNULUS TBG./ANN.

CUSTOMER REPRESENTATIVE X D Noland

HALLIBURTON OPERATOR D Noland COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	TYPE	API CLASS	BRAND	BULK SACKED	ADDITIVES	YIELD CU. FT./SK.	MIXED LBS./GAL.
1	150	HLC	STD		5	1/4" Floccle per sk	1.84	12.7
2	50	STD	A		5	3/40 cc	1.18	15.6

PRESSURES IN PSI

SUMMARY

VOLUMES

CIRCULATING _____ DISPLACEMENT _____ PREFLUSH: BBL.-GAL. _____ TYPE _____

BREAKDOWN _____ MAXIMUM _____ LOAD & BKDN: BBL.-GAL. _____ PAD: BBL.-GAL. 15

AVERAGE _____ FRACTURE GRADIENT _____ TREATMENT: BBL.-GAL. _____ DISPL: BBL.-GAL. _____

SHUT-IN: INSTANT _____ 3-MIN. _____ 15-MIN. _____ CEMENT SLURRY: BBL.-GAL. _____

HYDRAULIC HORSEPOWER _____ VOLUME: BBL.-GAL. _____

ORDERED _____ AVAILABLE _____ USED _____ REMARKS See Job Log

AVERAGE RATES IN BPM _____

TREATING _____ DISPL. _____ OVERALL _____

CEMENT LEFT IN PIPE _____

FEET _____ REASON _____

RECEIVED
STATE CORPORATION COMMISSION

JUN 16 1988

CONSERVATION DIVISION
Wichita, Kansas

CUSTOMER

CUSTOMER: Mark Emery Co
LEASE: Lula
WELL NO.: 2
JOB TYPE: Seize