

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

ORIGINAL

API NO. 15- 071-20,559-0000

County Greeley

SE - SW Sec. 2 Twp. 18S Rge. 43 X E
W

330' Feet from SW (circle one) Line of Section
3170' Feet from EW (circle one) Line of Section

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

Lease Name Brewer Well # 24-2

Field Name Moore-Johnson

Producing Formation N/A

Elevation: Ground 3917' KB 3928'

Total Depth 5335' PSTD ---

Amount of Surface Pipe Set and Cemented at 547' Feet

Multiple Stage Cementing Collar Used? Yes X No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from _____
feet depth to _____ w/ _____ sx cat.

Drilling Fluid Management Plan AIR DR
(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 Rng. _____ E/W

County _____ Docket No. _____

Operator: License # 30868

Name: MW Petroleum Corporation

Address 1700 Lincoln, Ste. 1900
Suite 1900

City/State/Zip Denver, CO 80203-4519

Purchaser: N/A

Operator Contact Person: Dave H. Gibbons

Phone (303) 837-5425

Contractor: Name: Thyenne Drilling Co.

License: 05382

Wellsite Geologist: Larry Boucher

Designate Type of Completion
 New Well Re-Entry Workover

 Oil SWD SLOW Temp. Abd.
 Gas ENHR SIGW
X Dry Other (Core, WSV, Expl., Cathodic, etc)

If Workover/Re-Entry: old well info as follows:

Operator: N/A

Well Name: _____

Comp. Date _____ Old Total Depth _____

 Deepening Re-perf. Conv. to Inj/SWD
 Plug Back PSTD
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Inj?) Docket No. _____

4/11/92 4/21/92 4/22/92
Spud Date Date Reached TD Completion Date
Plug

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 and correct to the best of my knowledge.

Signature DH Gibbons

Title Sr. Drlg/Production Engineer Date 5/5/92

Subscribed and sworn to before me this 5th day of May
1992

Notary Public Carolyn D. Hepp
Carolyn D. Hepp

Date Commission Expires 1/13/93

K.C.C. OFFICE USE ONLY

F Letter of Confidentiality Attached

C ✓ Wireline Log Received

C Geologist Report Received

 Distribution 5-8-92
1992

 KCC SWD/Rep NGPA
 KGS Other

CONSERVATION DIVISION
Wichita, Kansas

Operator Name MW Petroleum Corporation

Lease Name Brewer

Well # 24-2

Sec. 2 Twp. 18S Rge. 43

East
 West

County Greeley

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
(Attach Additional Sheets.)

See attached
Samples Sent to Geological Survey Yes No

Cores Taken Yes No

Electric Log Run Yes No
(Submit Copy.)

List All E.Logs Run:
DIL/GR/SP
BHC Sonic
FDC/CNL/PE

Log Formation (Top), Depth and Datum Sample

Name	Top	Datum
Fort Hays	646'	+3282'
Greenhorn	977'	+2951'
Dakota	1186'	+2742'
Morrison	1550'	+2378'
Permian	1764'	+2164'
Blaine	1993'	+1935'
Cedar Hills	2404'	+1524'
Stone Corral	2585'	+1343'
Chase Group	2774'	+1154'
Council Grove	3162'	+ 766'
Neva	3312'	+ 616'

cont'd

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	547'	HL "C"	170	2% CaCl2
					Standard	100	

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		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 Yes No

Date of First, Resumed Production, SWD or Inj. Producing Method Flowing Pumping Gas Lift 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

ORIGINAL

Brewer 24-2
ACO-1 Continued...

Log Tops:

Foraker	3394'	+ 534'
Admire	3534'	+ 394'
Virgil	3594'	+ 334'
Shawnee	3852'	+ 76'
Heebner	4092'	- 164'
Toronto	4117'	- 189'
Lansing	4158'	- 230'
Marmaton	4605'	- 677'
Fort Scott	4690'	- 762'
Cherokee	4711'	- 783'
Atoke	4968'	-1040'
Morrow Shale	5060'	-1132'
Basal Morrow Sand	5160'	-1232'
Lower Morrow	5174'	-1246'
Saint Genevieve	5200'	-1272'
Saint Louis	5226'	-1298'

RECEIVED
STATE CORPORATION COMMISSION

MAY 8 1992

CONSERVATION DIVISION
Wichita, Kansas

ORIGINAL

DRILL STEM TEST #1

FORMATION: Morrow Sandstone

INTERVAL: 5156' - 5173'

TYPE TEST: Conventional open hole dual packer

TESTING COMPANY: Trilobite Testing Company, Rod Steinbrink

WATER CUSHION: None

IF 10 MINUTES: Opened tool with 1/8" blow, remained throughout

ISI 30 MINUTES: Shut in tool with 1/8" blow, died in 5 minutes

FF 70 MINUTES: Open tool with 1/8" blow, 1" in 5 minutes, 2" in 15 minutes, 3" in 30 minutes, 3" in 45 minutes, bottom of bucket (12") in 55 minutes, 11" in 70 minutes

FSI 120 MINUTES: 11" blow died in 15 minutes

SAMPLE CHAMBER: Pressure: 145 psi
Recovery: 3500cc drilling mud

PIPE RECOVERY: 155' slightly oil and gas cut drilling mud
575' drilling mud

RESISTIVITY: Pit mud analysis: Rw.59 @ 80°F, 9000 ppm CL
Sampler analysis: Rw.59 @ 81°F, 8500 ppm CL
Pipe recovery: Rw.60 @ 79°F, 9000 ppm CL

PRESSURES:

<u>TOP CHART</u>		<u>BOTTOM CHART</u>	
IH:	2500	IH:	2502
IF:	47 - 47	IF:	57 - 57
ISI:	650	ISI:	636
FF:	58 - 82	FF:	69 - 81
FSI:	packer failed	FSI:	packer failed
FH:	2476	FH:	2479

BOTTOM HOLE TEMPERATURE: 131°F

RECEIVED
STATE CORPORATION COMMISSION

MAY 8 1992

CONSERVATION DIVISION
Wichita, Kansas

ORIGINAL

DRILL STEM TEST #2

FORMATION: Morrow Sandstone

INTERVAL: 5045' - 5193'

TYPE TEST: Conventional open hole dual packer

TESTING COMPANY: Trilobite Testing Company, Rod Steinbrink

WATER CUSHION: None

IF 10 MINUTES: Opened tool with 1/8" blow, increased to 1" in 10 minutes

ISI 30 MINUTES: 1" blow died in 19 minutes

FF 60 MINUTES: Opened tool with 1/8" blow, died in 14 minutes

FSI 120 MINUTES: Dead

SAMPLE CHAMBER: Pressure: 50 psi
Recovery: 3500cc drilling mud

PIPE RECOVERY: 80' drilling mud

RESISTIVITY: Pit mud analysis: Rw .58 @ 72°F, 11500 ppm CL
Sampler analysis: Rw .55 @ 70°F, 12000 ppm CL
Pipe recovery: Rw .58 @ 72°F, 11500 ppm CL

PRESSURES:

	<u>TOP CHART</u>	<u>BOTTOM CHART</u>
IH:	2503	IH: 2488
IF:	207 - 207	IF: 58 - 58
ISI:	769	ISI: 650
FF:	207 - 239	FF: 58 - 82
FSI:	829	FSI: 794
FH:	2494	FH: 2476

BOTTOM HOLE TEMPERATURE: 115°F

DRILLERS LOG

MW PETROLEUM CORPORATION
BREWAR #24-2
SECTION 2-T185-R43W
GREELEY COUNTY, KANSAS

COMMENCED: 04-11-92
COMPLETED: 04-22-92

SURFACE CASING: 536' OF 8 5/8"
CMTD W/170 SX HL "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- 550
SHALE	550-3750
LIME & SHALE	3750-5065
SHALE	5065-5173
SAND & SHALE	5173-5193
LIME & SHALE	5193-5280
LIME	5280-5335 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

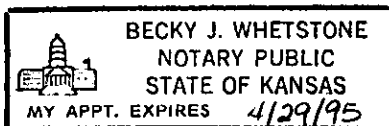
A. J. JACQUES

RECEIVED
STATE CORPORATION COMMISSION

MAY 8 1992

STATE OF KANSAS :ss:

SUBSCRIBED AND SWORN TO BEFORE ME THIS 23RD DAY OF APRIL, 1992. CONSERVATION DIVISION
Wichita, Kansas



Becky J. Whetstone
BECKY J. WHETSTONE, NOTARY PUBLIC

DISTRICT Li Beta

DATE 4-11

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

WELL NO. 24-2 LEASE Brewer SEC 2 TWP. 18 RANGE 413

FIELD _____ COUNTY Wheely STATE KS OWNED BY Same

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT

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

Table with columns: NEW USED, WEIGHT, SIZE, FROM, TO, MAX. ALLOW. P.S.I. Rows include CASING, LINER, TUBING, OPEN HOLE, and PERFORATIONS.

PREVIOUS TREATMENT: DATE _____ TYPE _____ MATERIALS _____

TREATMENT INSTRUCTIONS: TREAT THRU TUBING ANNULUS CASING TUBING/ANNULUS HYDRAULIC HORSEPOWER ORDERED _____

CNT 3 5/8 SURFACE CASING 11/4 FLO
170 545 HLG 290 CG 11/4 FLO
100 545 STD 11 11

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 list. Invoices are payable NET by the 20th of the following month after date of invoice.
- b) To defend, indemnify, release and hold harmless Halliburton, its divisions, subsidiaries, parent and affiliated companies and the officers, directors, employees, agents and servants of all of them from and against any claims, liability, expenses, attorneys fees, and costs of defense to the extent permitted by law for: 1. Damage to property owned by, in the possession of, or leased by Customer, and/or the well owner (if different from Customer), including, but not limited to, surface and subsurface damage. 2. Reservoir, formation, or well loss or damage, subsurface trespass or any action in the nature thereof. 3. Personal injury or death or property damage (including, but not limited to, damage to the reservoir, formation or well), or any damages whatsoever, growing out of or in any way connected with or resulting from pollution, subsurface pressure, losing control of the well and/or a well blowout or the use of radioactive material.
- c) That 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 products, supplies or materials, nor the results of any treatment or service, nor the accuracy of any chart interpretation, research analysis, job recommendation or other data furnished by Halliburton.
- d) That 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.
- e) That 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.
- f) To waive the provisions of the Deceptive Trade Practices - Consumer Protection Act, to the extent permitted by law.
- g) That this contract shall be governed by the law of the state where services are performed or materials are furnished.
- h) That Halliburton shall not be bound by any changes or modifications in this contract, except where such change or modification is made in writing by a duly authorized executive officer of Halliburton.

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

SIGNED [Signature] DATE 4-11 TIME 22:00 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

FIELD ORIGINAL 2 WELL DATA 17 TWP 43 RANG 43 COUNTY Neely STATE K

FORMATION NAME _____ TYPE _____
 FORMATION THICKNESS _____ FROM _____ TO _____
 INITIAL PROD: OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD _____
 PRESENT PROD: OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD _____
 COMPLETION DATE _____ MUD TYPE _____ MUD WT. _____
 PACKER TYPE _____ SET AT _____
 BOTTOM HOLE TEMP. _____ PRESSURE _____
 MISC. DATA _____ TOTAL DEPTH _____

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	<u>1</u>	<u>211</u>	<u>6 7/8</u>	<u>FD</u>	<u>550</u>	
LINER						
TUBING						
OPEN HOLE			<u>12 1/4</u>	<u>FD</u>	<u>550</u>	SHOTS/FT
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>11-11</u>	DATE <u>11-11</u>	DATE <u>11-12</u>	DATE <u>11-12</u>
TIME <u>13:00</u>	TIME <u>12:00</u>	TIME <u>00:10</u>	TIME <u>04:00</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>Phillips</u>	<u>210077</u>	<u>L-111141</u>
<u>Phillips</u>	<u>2592</u>	<u>11</u>
<u>Evans</u>	<u>111179</u>	<u>Winters</u>

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR <u>2 1/2</u>	<u>1</u>	
FLOAT SHOE <u>6 7/8</u>	<u>1</u>	
GUIDE SHOE <u>11 1/2</u>	<u>1</u>	
CENTRALIZERS <u>11</u>	<u>11</u>	
BOTTOM PLUG		
TOP PLUG <u>1 1/2</u>	<u>1</u>	
HEAD		
PACKER <u>1 1/2</u>	<u>1</u>	
OTHER <u>W. 10</u>	<u>1</u>	

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 476
 DESCRIPTION OF JOB 3 7/8
 JOB DONE THRU: TUBING CASING ANNULUS TBG/ANN
 CUSTOMER REPRESENTATIVE X [Signature]
 HALLIBURTON OPERATOR [Signature] COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
<u>1</u>	<u>110</u>	<u>HIG</u>	<u>B</u>	<u>20</u>	<u>CG 1/2# FLO</u>	<u>1.34</u>	<u>13.7</u>
<u>2</u>	<u>100</u>	<u>STU</u>	<u>B</u>	<u>11</u>	<u>11</u>	<u>1.18</u>	<u>15.6</u>

PRESSURES IN PSI

SUMMARY

VOLUMES

CIRCULATING _____ DISPLACEMENT _____ PRESLUSH: BBL-GAL _____ TYPE _____
 BREAKDOWN _____ MAXIMUM _____ LOAD & BKDN: BBL-GAL _____ PAD: BBL-GAL _____
 AVERAGE _____ FRACTURE GRADIENT _____ TREATMENT: BBL-GAL _____ DISPL: BBL-GAL 525
 SHUT-IN: INSTANT _____ 5-MIN _____ 15-MIN _____ CEMENT SLURRY: BBL-GAL 17
 HYDRAULIC HORSEPOWER _____ TOTAL VOLUME: BBL-GAL _____
 ORDERED _____ AVAILABLE _____ USED _____ AVERAGE RATES IN BPM _____
 TREATING _____ DISPL _____ OVERALL _____
 CEMENT LEFT IN PIPE _____
 FEET 113 REASON SA. JT.

REMARKS _____

CUSTOMER 111141 LEASE 111141 WELL NO. 11-2 JOB TYPE 11-2 DATE 11-11

HALIBURTON SERVICES
JOB LOG

WELL NO. 24-2 LEASE Brewer TICKET NO. 105 293

CUSTOMER M W Pet Corp PAGE NO. _____

JOB TYPE 3 5/8 DATE 11-11

FORM 2013 R-2

ORIGINAL

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	13:00							Called out
	22:00							Req on loc
	22:00							on loc
								2572 P.H.U.
	23:00							Hole cut
	00:10							5+ cas ^s
	03:20							cin w/ rig
	03:25	14						First cmt
	03:43	5	77081					0 fill cmt
	03:44							Drop plug
	03:45	5						0.5T disp
	03:50	2	32					500ft disp
								cmt cin Yes
								7 BBL

MISSION
MAY 8 1992
CONSERVATION DIVISION
Wichita, Kansas

CUSTOMER



ORIGINAL WORK-ORDER CONTRACT AND PRE-TREATMENT DATA

FORM 1908 R-7

A Division of Halliburton Company

ATTACH TO INVOICE & TICKET NO. 105970

DISTRICT LAMOR, Co DATE 4-21-72

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

WELL NO. 24-2 LEASE Brewer SEC. 2 TWP. 155 RANGE 43N)
FIELD State Line COUNTY Greene STATE Ks OWNED BY M. W. Pet. Corp.

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT

FORMATION NAME _____ TYPE _____	NEW USED	WEIGHT	SIZE	FROM	TO	MAX. ALLOW. P.S.I.
FORMATION THICKNESS _____ FROM _____ TO _____						
PACKER: TYPE _____ SET AT _____						
TOTAL DEPTH _____ MUD WEIGHT _____						
BORE HOLE _____						
INITIAL PROD.: OIL _____ BPD, H ₂ O _____ BPD, GAS _____ MCF _____						
PRESENT PROD.: OIL _____ BPD, H ₂ O _____ BPD, GAS _____ MCF _____						

PREVIOUS TREATMENT: DATE _____ TYPE _____ MATERIALS _____

TREATMENT INSTRUCTIONS: TREAT THRU TUBING ANNULUS CASING TUBING/ANNULUS HYDRAULIC HORSEPOWER ORDERED

Plug To Abandon 1st Plug 50SKS @ 2654 FT 2nd Plug 80SKS @ 1750 FT 3rd Plug 50SKS @ 375 FT 4th Plug 50SKS @ 550 FT 5th Plug 10SKS Top surface 6th Plug 15SKS Rathole 7th Plug 10SKS Microseal

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 list. Invoices are 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 attorneys 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.
- b) To defend, indemnify, release and hold harmless Halliburton, its divisions, subsidiaries, parent and affiliated companies and the officers, directors, employees, agents and servants of all of them from and against any claims, liability, expenses, attorneys fees, and costs of defense to the extent permitted by law for
 - 1 Damage to property owned by, in the possession of, or leased by Customer, and/or the well owner (if different from Customer), including, but not limited to, surface and subsurface damage. The term "well owner" shall include working and royalty interest owners.
 - 2 Reservoir formation, or well loss or damage, subsurface trespass or any action in the nature thereof.
 - 3 Personal injury or death or property damage (including, but not limited to, damage to the reservoir formation or well), or any damages whatsoever, growing out of or in any way connected with or resulting from pollution subsurface pressure, losing control of the well and/or a well blowout or the use of radioactive material.

The defense, indemnity, release and hold harmless obligations of Customer provided for in this Section b) and Section c) below shall apply to claims or liability even if caused or contributed to by Halliburton's negligence strict liability, or the unreasonableness of any well owned, operated, or furnished by Halliburton or any defect in the data, products, supplies, materials, or equipment of Halliburton whether in the preparation design, manufacture, distribution or marketing thereof, or from a failure to warn any person of such defect. Such defense, indemnity, release and hold harmless obligations of Customer shall not apply where the claim or liability is caused by the gross negligence or willful misconduct of Halliburton. The term "Halliburton" as used in said Sections b) and c) shall mean Halliburton, its divisions, subsidiaries, parent and affiliated companies, and the officers, directors, employees, agents and servants of all of them.
- c) That because of the uncertainty of well conditions and the necessity of relying on facts and supporting services furnished by others, Halliburton is unable to guarantee the effectiveness of the products, supplies or materials, nor the results of any treatment or service, nor 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 liable for and Customer shall indemnify Halliburton against any damages arising from the use of such information.
- d) That 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.
- e) That 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.
- f) To waive the provisions of the Deceptive Trade Practices - Consumer Protection Act, to the extent permitted by law.
- g) That this contract shall be governed by the law of the state where services are performed or materials are furnished.
- h) That Halliburton shall not be bound by any changes or modifications in this contract, except where such change or modification is made in writing by a duly authorized executive officer of Halliburton.

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

SIGNED Jake K... CUSTOMER

DATE 4-21-72

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.

TIME 1930 A.M.

CUSTOMER

JOB LOG

WELL NO. 24-2 LEASE Brewer TICKET NO. 105770

CUSTOMER M.W. Petroleum Corp PAGE NO. 1

JOB TYPE PTA DATE 7-21-92

FORM 2013 R-2

ORIGINAL

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1800							Called out 1 hour before
	ASAP							Request material
	1930							Arrive Loc, Rig, Laying down pipe
								1st Plug 10 SKS @ 2105 FT
	2030	5	10					START WATER AHEAD
	2032	5	15					START MIX CEMENT
	2035	5	3.5					START WATER AHEAD
	2036							START MUD DISP.
	2037	5	20					FINISH MUD DISP.
								2nd Plug 10 SKS @ 2105 FT
	2041	5	10					START WATER AHEAD
	2046	10	24					START MIX CEMENT
	2047	3.5	3.5					START WATER AHEAD
	2051							START MUD DISP.
	2051	5	15					FINISH MUD DISP.
								3rd Plug 10 SKS @ 2105 FT
	0054	5	10					START WATER AHEAD
	0100	5	15					START MIX CEMENT
	0103	3.5	3.5					START WATER AHEAD
	0104							START MUD DISP.
	0105	5	5					FINISH MUD DISP.
								4th Plug 10 SKS @ 2105 FT
	0120	5	25					START WATER AHEAD
	0125	5	15					START MIX CEMENT
	0128							START WATER AHEAD
	0129	5	5					FINISH WATER DISP.
	0214	3	3					5th Plug 10 SKS @ 2105 FT
	0215	4	4					6th Plug 15 SKS Patch hole
	0246	3	3					7th Plug 10 SKS Mousse hole
	0300							Job Complete
								Thank You For Calling
								Halliburton
								Darryl, Don, [unclear]

CUSTOMER

FIELD State line WELL DATA
 ORIGIN 185 RING 43W COUNTY Greeley 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 _____ SET AT _____
 BOTTOM HOLE TEMP. _____ PRESSURE _____
 MISC. DATA _____ TOTAL DEPTH _____

NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	<u>A</u>	<u>24</u>	<u>8 5/8</u>	<u>128</u>	<u>547</u>
LINER					
TUBING					
OPEN HOLE		<u>7 7/8</u>	<u>547</u>	<u>5335</u>	SHOTS/FT.
PERFORATIONS					
PERFORATIONS					
PERFORATIONS					

TOOLS AND ACCESSORIES

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

JOB DATA

CALLED OUT DATE	ON LOCATION DATE	JOB STARTED DATE	JOB COMPLETED DATE
<u>4-21-92</u>	<u>4-21-92</u>	<u>4-21-92</u>	<u>4-22-92</u>
TIME <u>1800</u>	TIME <u>1930</u>	TIME <u>2330</u>	TIME <u>0300</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>G.D. MOORE</u>	<u>40079</u>	<u>LAMAR, CO</u>
<u>D. KRIGER</u>	<u>2592</u>	<u>LAMAR, CO</u>
<u>C. FISHER</u>	<u>3233</u>	<u>LAMAR, CO</u>
<u>44061</u>	<u>SD70</u>	<u>LAMAR, CO</u>

MATERIALS

TREAT. FLUID _____ DENSITY _____ LB/GAL-AP
 DISPL. FLUID _____ DENSITY _____ LB/GAL-AP
 PROP. TYPE _____ SIZE _____ LB
 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 _____ IN
 PERFFAC BALLS TYPE _____ QTY. _____
 OTHER _____

DEPARTMENT CEMENT
 DESCRIPTION OF JOB Plug to abandon
 JOB DONE THRU: TUBING CASING ANNULUS TBG/ANN.
 CUSTOMER REPRESENTATIVE X Jake Kuffner
 HALLIBURTON OPERATOR J.D. Moore COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT BRAND	BULK WEIGHT	ADDITIVES	YIELD CU FT./BK.	MIXED LBS/GAL
<u>1</u>	<u>50</u>	<u>60/100</u>	<u>5</u>	<u>6% Cel 10% Flocc</u>	<u>12.8</u>	<u>110.9</u>
<u>2</u>	<u>80</u>					
<u>3</u>	<u>50</u>					
<u>4</u>	<u>50</u>					
<u>5</u>	<u>10</u>					

PRESSURES IN PSI _____ SUMMARY _____ VOLUMES _____
 CIRCULATING _____ DISPLACEMENT _____ PRESLUSH: BBL-GAL _____ TYPE _____
 BREAKDOWN _____ MAXIMUM _____ LOAD & BKDN: BBL-GAL _____ PAD: BBL-GAL _____
 AVERAGE _____ FRACTURE GRADIENT _____ TREATMENT: See 506/109 DISPL: BBL-GAL _____
 SHUT-IN: INSTANT _____ 5-MIN _____ 15-MIN _____ CEMENT SLURRY: BBL-GAL _____
 HYDRAULIC HORSEPOWER _____ TOTAL VOLUME: BBL-GAL _____
 ORDERED _____ AVAILABLE _____ USED _____ AVERAGE RATES IN BPM _____
 TREATING _____ DISPL _____ OVERALL _____ CEMENT LEFT IN PIPE _____
 FEET _____ REASON _____

REMARKS
THANK YOU FOR CALLING
HALLIBURTON

CUSTOMER M.W. Petroleum Corp LEASE Revised WELL NO. 24-2 JOB TYPE PTD DATE 4-21-92