

FORM MUST BE TYPED

ORIGINAL SIDE ONE

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

Operator: License # 30146  
Name: Mach Petroleum, Inc.  
Address: P.O. Box 35583  
City/State/Zip Tulsa, OK 74153  
Purchaser: N/A  
Operator Contact Person: Thomas G. Mach  
Phone (918) 496-0442  
Contractor: Name: Duke Drilling Co., Inc.  
License: 5992  
Wellsite Geologist: Dan Fredland  
Designate Type of Completion  
 New Well  Re-Entry  Workover  
 Oil  SVD  S10W  Temp. Abd.  
 Gas  ENHR  SIGW  
 Dry  Other (Core, WSW, Expl., Cathodic, etc)

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

Operator: \_\_\_\_\_  
Well Name: \_\_\_\_\_  
Comp. Date \_\_\_\_\_ Old Total Depth \_\_\_\_\_  
\_\_\_\_\_ Deepening \_\_\_\_\_ Re-perf. \_\_\_\_\_ Conv. to Inj/SWD  
\_\_\_\_\_ Plug Back \_\_\_\_\_ PBTB  
\_\_\_\_\_ Commingled \_\_\_\_\_ Docket No. \_\_\_\_\_  
\_\_\_\_\_ Dual Completion \_\_\_\_\_ Docket No. \_\_\_\_\_  
\_\_\_\_\_ Other (SWD or Inj?) \_\_\_\_\_ Docket No. \_\_\_\_\_  
10-13-92      10-19-92      10-26-92  
Spud Date      Date Reached TD      Completion Date

API NO. 15- 155-21,221-0000  
County Reno  
NE - NE - NW - Sec. 21 Twp. 25 Rge. 9  <sup>E</sup>/<sub>W</sub>  
330 Feet from S (circle one) Line of Section  
2970 Feet from E (circle one) Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
NE SE, NW or SW (circle one)  
Lease Name Schaffer Well # 1  
Field Name Langdon  
Producing Formation Mississippi Chat  
Elevation: Ground 1704 KB 1712  
Total Depth 4017 PBTB \_\_\_\_\_  
Amount of Surface Pipe Set and Cemented at 192' 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 cnt.  
Drilling Fluid Management Plan Per 11-28-92  
(Data must be collected from the Reserve Pit)  
Chloride content 9000 ppm Fluid volume 1060 bbls  
Desalting method used Haul to disposal  
Location of fluid disposal if hauled offsite: \_\_\_\_\_  
Operator Name C & C Tank Service, Inc.  
Lease Name Roach SWD License No. 30708  
Quarter Sec. 14 Twp. 25 S Rng. 9  <sup>E</sup>/<sub>W</sub>  
County Reno Docket No. D-22208

*Recd 11-12-92*

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 reports 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 Thomas C. Mach  
Title President Date 11/6/92  
Subscribed and sworn to before me this 6 day of November 1992  
Notary Public Joy Wattle  
Date Commission Expires August 8, 1994

*Recd 11-12-92*

K.C.C. OFFICE USE ONLY  
F  Letter of Confidentiality Attached  
C  Wireline Log Received  
C  Geologist Report Received  
Distribution  
 KCC  SVD/Rep  MGA  
 KGS  Plug  Other  
(Specify)

*PI*

SIDE TWO

Operator Name Mach Petroleum, Inc. Lease Name Schaffer Well # 1  
 Sec. 21 Twp. 25 Rge. 9  East County Reno  
 West

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

Drill Stem Tests Taken (Attach Additional Sheets.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Lansing/KC	3380	-1696
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Cherokee	3836	-2152
List All E.Logs Run:		Mississippi	3858	-2174
		Kinderhook	3942	-2258

DIL/FDC/CNL/CBL

CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12 1/4"	8-5/8"	24#	192'	60/40 poz	175	2% gel 3% cc
Production	7-7/8"	5 1/2"	15.5#	4014'	Lite Filler	50	
					Class A	75	
						50	

ADDITIONAL CEMENTING/SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
4	3858-3874, 3878-3882	3500g 12% HCL/6% HF	Perfs

TUBING RECORD	Size <u>7</u>	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	NOV 12 1992 11-12-92
No tubing in well					
Date of First, Resumed Production, SWD or Inj.	Producing Method	Shut-in			
Shut-in	<input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input checked="" type="checkbox"/> Other (Explain)				
Estimated Production Per 24 Hours	Oil Bbls. Shut-in	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

Disposition of Gas:	METHOD OF COMPLETION	Production Interval
<input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease (If vented, submit ACO-18.)	<input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <input checked="" type="checkbox"/> Other (Specify) <u>Shut-in</u>	<u>Shut-in</u>



P.O. Box 4442  
Houston, Tx. 77210

**ORIGINAL**

**SERVICE OPERATIONS CONTRACT**  
TERMS NET 30 DAYS FROM DATE OF CONTRACT

REMIT TO: P.O. Box 297476; Houston, Tx. 77297

CUSTOMER ACCOUNT NO.		DIST NAME <i>WEO 006E</i>		NEW WELL <input checked="" type="checkbox"/>	WELL TYPE	SERVICE CONTRACT NO. <b>071922</b>
CUSTOMER <i>MACH PETROLEUM INC</i>		DIST NUMBER <i>534</i>		OLD WELL <input type="checkbox"/>	LEASE NAME & FEDERAL OFFSHORE LEASE NO. <i>SCHAEFER</i>	JOB NUMBER <i>801</i>
ADDRESS		COUNTY/PARISH <i>RENO</i>		WELL NO. <i>1</i>	CODE	STATE <i>LA</i> CODE
CITY		STATE		FIELD NAME <i>LANGDON</i>		CITY CODE
AUTHORIZED BY: <i>STEVE BUNDY</i>		ORDER NO.		WELL OWNER <i>MACH PETROLEUM INC</i>		MTA CODE
STAGE NO.	JOB CODE <i>0100 - CEMENT</i>	WORKING DEPTH <i>193</i> FT		PUMPING EQUIPMENT		TIME (A OR P)
TOTAL PREV. GALS.	SURFACE <input checked="" type="checkbox"/> INTERMEDIATE <input type="checkbox"/> PRODUCTION <input type="checkbox"/> REMEDIAL <input type="checkbox"/>		TRUCK CALLED		DATE	
TOTAL MEAS. DEPTH	SIZE HOLE <i>12 1/4"</i> DEPTH <i>193</i> FT		ARRIVED AT JOB		<i>5:45 P 10/13/92</i>	
AVG. PSI	SIZE & WT. CASING <i>RS18" 24#</i> DEPTH		START OPERATION		<i>7:15 P 10/13/92</i>	
MAX. PSI	SIZE & WT. DRILL PIPE OR TUBING <i>4 1/2" 16.6#</i> DEPTH		FINISH OPERATION		<i>7:30 P</i>	
MAX. RPM	PACKER DEPTH		TIME RELEASED		SALESMAN NUMBER	
S/S EMPLOYEE NUMBER	FLUID PUMPED		MILES FROM STATION TO WELL		MILES FROM STATION TO WELL	
<i>6664SH</i>	CUSTOMER INSTRUCTIONS FOR DISPOSAL OF RETURNED CEMENT					

REMARKS

**CONTRACT CONDITIONS:** (This contract must be signed before the job is commenced or merchandise is delivered)  
The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of BJ SERVICES.

PRICE BOOK *01*      SIGNED *Steve Bundy* (WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

PRICE BOOK REF NO	QUANTITY	DESCRIPTION	UNIT PRICE	UNIT	PRICE EXTENSION
	1	0-300' PUMP CHARGE	463.00	F	463.00
	25	RELEASE ON PUMP	2.47	F	61.75
	102	CLASS A	5.79	Q	590.58
	68	FLYASH	3.06	Q	208.08
	439	A-7P	.48	L	210.72
	293	BT BEL	.15	L	43.95
		MIXING CHARGE	1.16	Q	211.35
		DISCHARGE	.79	E	152.68
	1	8 1/2" TOP RESIN PUG	105.25	E	105.25
		BOOK PRICE			2046.76

SERVICE REPRESENTATIVE *JOHN BRUNOARDT*      THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: *Steve Bundy*

CHECK IF CONTINUATION IS USED      (WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

CUSTOMER: This is not an invoice - This Service Operations Contract is subject to review and correction by our Accounting Department.



P.O. Box 4442  
Houston, Texas 77210

# ORIGINAL CEMENTING LOG

STAGE NO. 1

Date: 12/18/92 District: Med. Co. 66E Ticket No. 071922  
 Company: MAOH PETRO INC Rig: DOVE # 2  
 Lease: SHAFFER Well No. 1  
 County: WENO State: KANSAS  
 Location: 21-25-9W Field: 1/2E 75  
FAIRFIELD 46th SCHOOL

CASING DATA: PTA  Squeeze   
 Surface  Intermediate  Production   
 Size: 3 7/8" Type: JE Weight: 24# Collar: 3RD

FIRST - 2950'  
COLLARS - 1370'

Casing Depth: Top KL Bottom 193'

CEMENT DATA: FRESH H<sub>2</sub>O  
 Spacer Type: \_\_\_\_\_ Amt. \_\_\_\_\_ Skts Yield \_\_\_\_\_ ft<sup>3</sup>/sk Density \_\_\_\_\_ PPG \_\_\_\_\_  
 LEAD: Pump Time \_\_\_\_\_ hrs. Type 40:60:2  
3% A-7P Excess \_\_\_\_\_  
 Amt. 170 Skts Yield 1.27 ft<sup>3</sup>/sk Density 14.5 PPG \_\_\_\_\_  
 TAIL: Pump Time \_\_\_\_\_ hrs. Type \_\_\_\_\_ Excess \_\_\_\_\_  
 Amt. \_\_\_\_\_ Skts Yield \_\_\_\_\_ ft<sup>3</sup>/sk Density \_\_\_\_\_ PPG \_\_\_\_\_  
 WATER: Lead 5.68 gals/sk Tail \_\_\_\_\_ gals/sk Total 22 Bbls. \_\_\_\_\_  
 Pump Trucks Used 2902-6491 JUSTIN HART  
 Bulk Equip. 2903-5416 MAX WOLF

Drill Pipe: Size 4 1/2" Weight 16.6# Collars XH  
 Open Hole: Size 12 1/4" T.D. 193 ft. P.B. to \_\_\_\_\_ ft.

CAPACITY FACTORS:

Casing:	Bbls/Lin. ft.	<u>.0637</u>	Lin. ft./Bbl.	<u>15.7'</u>
Open Holes:	Bbls/Lin. ft.	<u>.1459</u>	Lin. ft./Bbl.	<u>6.85'</u>
Drill Pipe:	Bbls/Lin. ft.	<u>.01422</u>	Lin. ft./Bbl.	<u>70.3'</u>
Annulus:	Bbls/Lin. ft.	<u>.0735</u>	Lin. ft./Bbl.	<u>13.6'</u>

Perforations: From \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Amt. \_\_\_\_\_

Float Equip: Manufacturer \_\_\_\_\_  
 Shoe: Type \_\_\_\_\_ Depth 193'  
 Float: Type \_\_\_\_\_ Depth 179'  
 Centralizers: Quantity \_\_\_\_\_ Plugs Top BEEN Btm. \_\_\_\_\_  
 Stage Collars \_\_\_\_\_  
 Special Equip. \_\_\_\_\_  
 Disp. Fluid Type FRESH H<sub>2</sub>O Amt. 11 1/2 Bbls. Weight 9.24 PPG \_\_\_\_\_  
 Mud Type NATIVE Weight \_\_\_\_\_ PPG \_\_\_\_\_

COMPANY REPRESENTATIVE: STEVE LUNDY

CEMENTER: DAVID PANGARDT

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	
5:45						ON LOCATION, SET 6 UP JOB + SAFETY MEET
						RUN 3 7/8" CASING TO BOTTOM
						BREAK CIRCULATION
						SET 6 UP TO CEMENT PUMP
7:15	340			3	6	START FRESH H <sub>2</sub> O
	233		3	3 1/2	6	H <sub>2</sub> O IN - START CEMENT
	222		4 1/2	3 1/2	5	CEMENT IN - STOP HILKS
						CHANGE VALVES - RELEASE PUG
	222				4	START DISPLACEMENT
	28		48 1/2	7	2	SLOW RATE
7:20	204		53	4 1/2	2	TUB DOWN - STOP PUMP
						CEMENT TO BELLAR



SERVICE OPERATIONS CONTRACT CONTINUATION

ORIGINAL

CONTRACT NO. 071956

DATE OF JOB	10/19/92	DISTRICT	Med. Lodge	DIST. NO.	584	AUTHORIZED BY	STEVE BUNDY
CUSTOMER	MACH PETROLEUM INC.						

PRICE BOOK	PRICE BOOK REF. NO.	QUANTITY	DESCRIPTION	UNIT PRICE	U/M	PRICE EXTENSION
91		566	BT. OIL	.15	L	84.90
		500	REGULAR MLD SWEEP	1.73	B	865.00
		246.5	WALKING CHARGE	1.16	Q	285.94
		265	DAMAGE 10.6 X 25	.79	E	209.35
		1	5/8" TOP RESIN AUG	63.25	E	63.25
		1	5/8" GUIDE SHOE - W	124.00	E	124.00
		1	5/8" FEU INSERT - W	188.00	E	188.00
		1	5/8" BASKET - B	140.00	E	140.00
		4	5/8" CENTRALIZERS - W	46.75	E	187.00
		1	ROTATING HEAD RENTAL	200.00	E	200.00
			BOOK PRICE		#	5863.23
			TAXES			1524.44
			SUBTOTAL		#	4338.79

SERVICE REPRESENTATIVE: <u>K. BRUNGARDT</u>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <u>Steve Bundy</u>
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CHECK IF CONTINUATION IS USED (WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

CUSTOMER: This is not an invoice - This Service Operations Contract is subject to review and correction by our Accounting Department.



# ORIGINAL LOAD SHEET

JOB NUMBER <b>001834</b>	CONTRACT NUMBER <b>071956</b>	DATE <b>10-19-92</b>	DISTRICT NAME <b>Med. July 14</b>
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NAME AND ADDRESS <b>WACH PETROLEUM INC</b>	VENDOR NAME
<b>2904</b>	

Item No.	Part Number	Description	UNIT OF MEASURE	AMOUNT LOADED	DIRECT SHIPPED	AMOUNT RETURNED
1	410504	Class A	Q	33		0
2	415018	Fly Ash	Q	17		0
3	420145	BT Fuel	L	435		0
4						
5						
6		CLASS A	Q	16		0
7		FLY ASH	Q	9		0
8		BT FUEL	L	131		0
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						

COPY 1 - DIRECT COPY COPY 2 - DRIVER COPY COPY 3 - CUSTOMER	LOADED BY: <b>J. Kallan</b> PRINTED <b>Kevin Brown</b> SIGNATURE	CUSTOMER: <b>Steve Burdy</b> SIGNATURE DATE: <b>10/19/92</b>
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LOAD SHEET

ORIGINAL

JOB NUMBER 501834	CONTRACT NUMBER 071956	DATE 10-19-92	DISTRICT NAME Mach. Dept, Kan
NAME AND ADDRESS MACH PETROLEUM, INC		DIRECT SHIPMENT FROM	
2903/16483		VENDOR NAME	

No.	Part Number	Description	UNIT OF MEASURE	AMOUNT LOADED	DIRECT SHIPPED	AMOUNT RETURNED
1		FRONT CAW				
2	4110504	Class A	Q	75		0
3	4128020	A10	L	392		0
4	415038	A5-belt	L	406		0
5	415082	Kel-seal	L	450		0
6	412540	FL-50	L	35		0
7	412450	FP-8	L	19		0
8						
9						
10		REAR CAW				
11	4110504	Class A	Q	50		0
12	4128020	A10	L	470		0
13	415038	A5-belt	L	315		0
14	415049	A7P	L	47		0
15	415082	Kel-seal	L	300		0
16	412540	FL-50	L	23		0
17	4124530	FP 8	L	13		0
18						
19						
20	4125010	Reg. Wheel Decrep	Q	500		0
21						
22	430620	5 1/2" TOP RESTN PINS	E	1		0
23						
24						
25						
26						
27						

COPY 1 - DISTRICT COPY COPY 2 - CUSTOMER COPY COPY 3 - DISTRICT	LOADED BY: <u>J. Kallen</u> <u>Louis Phayre</u> <small>PRINTED SIGNATURE</small>	CUSTOMER: <u>Steve Brindley</u> <small>SIGNATURE</small> DATE: <u>10/19/92</u> <small>RECEIVED</small>
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P.O. Box 4442  
Houston, Tx. 77210

ORIGINAL

SERVICE OPERATIONS CONTRACT  
TERMS NET 30 DAYS FROM DATE OF CONTRACT

REMIT TO: P.O. Box 297476, Houston, Tx. 77297

DATE 10-19-92 SERVICE CONTRACT NO. 071956

CUSTOMER ACCOUNT NO.   
 CUSTOMER MACH PETROLEUM INC.   
 ADDRESS   
 CITY STATE ZIP   
 AUTHORIZED BY: (Please Print) STEVE BONDY   
 ORDER NO.   
 DIST. NAME M&O LODGE   
 DIST. NUMBER 584

NEW WELL  OLD WELL  WELL TYPE 0   
 JOB NUMBER 501834   
 WELL NO. 1 LEASE NAME & FEDERAL OFFSHORE LEASE NO. SCHAEFER   
 COUNTY/PARISH KENO CODE STATE KS CODE   
 FIELD NAME CITY CODE   
 WELL OWNER MACH PETROLEUM INC. MTA CODE

STAGE NO.   
 JOB CODE 0106-CEMENT WORKING DEPTH 4017 FT   
 1 SURFACE  2 INTERMEDIATE  3 PRODUCTION  4 REMEDIAL    
 TOTAL PREV. GALS.   
 SIZE HOLE 7 7/8" DEPTH 4017 FT   
 TOTAL MEAS. DEPTH   
 SIZE & WT. CASING 5 1/2" 15 ST DEPTH 4014 FT   
 SIZE & WT. DRILL PIPE OR TUBING   
 DEPTH   
 PRESSURE   
 AVG. PSI 250 MAX. PSI 1340   
 PACKER DEPTH   
 FLUID PUMPED

PUMPING EQUIPMENT TIME (A OR P) DATE   
 TRUCK CALLED 40.0 P 10/19/92   
 ARRIVED AT JOB 3.00 A 10/19/92   
 START OPERATION 7.10 A 10/19/92   
 FINISH OPERATION   
 TIME RELEASED   
 MILES FROM STATION TO WELL 54 SALESMAN NUMBER

CUSTOMER INSTRUCTIONS FOR DISPOSAL OF RETURNED CEMENT

MAX. BPM 7.2   
 S/S EMPLOYEE NUMBER 666454

REMARKS

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PRICE BOOK 011   
 SIGNED: X   
 (WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

PRICE BOOK REF. NO.	QUANTITY	DESCRIPTION	UNIT PRICE	LINE	PRICE EXTENSION
104100321	1	4,001' - 4,500' PUMP CHARGE	1263.00	E	1263.00
104109005	23	MILEAGE ON PUMP	247	C	61.75
104110504	174	CLASS A	5.79	Q	1007.46
1041150118	26	FLUSH	3.06	Q	79.56
104128020	822	H-10	.23	L	139.06
104115049	47	A-7P	.48	L	22.56
104115038	721	A-5	.12	L	86.52
104115037	750	KOL SEAL	.35	L	262.50
104127240	58	FL-50	7.89	L	457.62
104124530	32	FP-8	27.68	L	887.76

SERVICE REPRESENTATIVE KEVIN BRUNGARDT   
 THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: Steve Bondy   
 (WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

CHECK IF CONTINUATION IS USED   
 CUSTOMER: This is not an invoice. This Service Operations Contract is subject to review and correction by our Accounting Department.





P.O. Box 4442  
Houston, Texas 77210

# ORIGINAL CEMENTING LOG

STAGE NO.

Date 10/19/92 District Med Lodge Ticket No. 071956  
 Company WACH PETROLEUM INC. Rig DUKE #2  
 Lease SHAFFER Well No. 1  
 County WENO State KANSAS  
 Location 21-25s-10w Field FAIRFIELD HIGH SCHOOL 1/2 E 51s

CASING DATA: PTA  Squeeze   
 Surface  Intermediate  Production  Liner   
 Size 5 1/2" Type J-55 Weight 15.5# Collar LT 1/2"  
BRD

BURST - 4810#  
COLLAPSE - 4040#  
 Casing Depth: Top KB Bottom 4014'  
378" BL -

Drill Pipe: Size 4 1/2" Weight 16.6# Collars XA  
 Open Hole: Size 7 7/8" T.D. 4017 ft. P.B. to \_\_\_\_\_ ft.

CAPACITY FACTORS:

Casing	Bbls/Lin. ft.	<u>.0238</u>	Lin. ft./Bbl.	<u>42.01'</u>
Open Moles	Bbls/Lin. ft.	<u>.0602</u>	Lin. ft./Bbl.	<u>16.59'</u>
Drill Pipe	Bbls/Lin. ft.	<u>.01422</u>	Lin. ft./Bbl.	<u>70.3'</u>
Annulus	Bbls/Lin. ft.	<u>.0309</u>	Lin. ft./Bbl.	<u>32.4'</u>
Perforations:	From _____ ft. to _____ ft.		Amt. _____	

CEMENT DATA:  
 Spacer Type 500 BBL. RESUR. MUD SWEEP  
 Amt. 50 Sks Yield 2.34 ft<sup>3</sup>/sk Density 11.9 PPG  
35:65:10  
13.59 6PS

LEAD: Pump Time \_\_\_\_\_ hrs. Type CLASS A, 5 1/2" A  
10% H<sub>2</sub>O, 6" RA SEAL, 5 1/2" FC 50 Excess \_\_\_\_\_  
 Amt. 75 Sks Yield 1.48 ft<sup>3</sup>/sk Density 14.8 PPG  
 TAIL: Pump Time \_\_\_\_\_ hrs. Type CLASS A, 10 1/2" A  
10% H<sub>2</sub>O, 6" RA SEAL, 5 1/2" FC 50 Excess \_\_\_\_\_  
 Amt. 50 Sks Yield 1.57 ft<sup>3</sup>/sk Density 14.3 PPG  
 WATER: Lead 6.59 gals/sk Tail 6.87 gals/sk Total 36 Bbls

Pump Trucks Used 1492 JUSTIN HART  
 Bulk Equip. 2903-6483 REEVE BLAKESLEY  
5904-5416 JOHN KELLEY  
2957-8760 RECK. JONES

Float Equip. Manufacturer WEATHERFORD  
 Shoe Type CEMENT Depth 4014'  
 Float Type AFU FLAPPER Depth 3973'  
 Centralizers: Quantity \_\_\_\_\_ Plug Top RESIN Btm. \_\_\_\_\_  
 Stage Collars \_\_\_\_\_  
 Special Equip. 1 BASKET  
 Disp. Fluid Type FRESH H<sub>2</sub>O Amt. 93 1/2 Bbls Weight 3.31 PRE  
 Mud Type CHEMICAL Weight 9.3 PPG

COMPANY REPRESENTATIVE STEVE BUNDY CEMENTER KEVIN BRUNGARDI

TIME LAMP	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	
3:00						ON LOCATION, RIG UP JOB + SAFETY MEETING
						RUN 5 1/2" CASING TO BOTTOM ROTATE CASING WHILE CIRCULATING CIRCULATE FOR 90 MINUTES
						RIG UP TO CEMENT PUMP
	350				5 1/2	START MUD SWEEP
	400		12	12	5 1/2	MUD SWEEP IN - START LEAD
	200		33	21	6	LEAD IN - START FELLER - INC. RATE
	350		33	20	7.2	FELLER IN - START TAIL
	350		67	14	7.2	TAIL IN - STOP PUMPS - CHANGE VALVE FLUSH PUMPS + LINES - CHANGE VALVE
	50				3	RELEASE PLUG - START DISPLACEMENT
	150		69	2	6	INCREASE RATE
	150		97 1/2	28 1/2	6	MUD SWEEP @ SHOPE
	150		109 1/2	12	6	LEAD SURRY @ SHOPE
	150		123 1/2	14	6	FELLER SURRY @ SHOPE
	500		139 1/2	16	5	GRADUAL PSI INCREASE
	600		144	4 1/2	5	TAIL SURRY @ SHOPE
	700		160	16	3	SLOW RATE
7:37	1340		165 1/2	5 1/2	3	PUMP PLUG + HOLD PRESSURE RELEASE PRESSURE AND FLOAT HOLDS!
						PLUG RATHOLE + MOVE HOLE / SL 35:65:10

FINAL DISP. PRESS. 675 PSI BUMP PLUG TO 1340 PSI BLEEDBACK 1/2 BBLs THANK YOU

42	35	22	92	37	37	142			192		242		
43	42	22	93	38	75	143			193		243		(56) 34.20 007
44	44	20	94	43	22	144			194		244		400713
45	43	47	95	43	09	145			195	RIG-IN	245		10 back 57
46	44	38	96	43	91	146			196	RIG-IN	246		401713
47	44	45	97	41	95	147			197		247		Measure tubular goods with steel tape
48	44	61	98	41	94	148			198		248		only. Use white tape when possible.
49	43	30	99			149			199		249		Record tape readings in feet and
50	43	07	100			150			200		250		hundredths.

2105.05 2007.11

Form 943 2-71  
(12-70)

APPROVED \_\_\_\_\_

Amoco Representative



# ORIGINAL

## Amoco Production Company

### CASING AND TUBING TALLY

LEASE/UNIT/FACILITY Shaffer WELL No. 1 DATE Oct 18 1992

PIPE RUN. SIZE 5 1/2 WEIGHT 1550 GRADE J555 TYPE JOINT LT/C MAKE \_\_\_\_\_ NO. FT. 4129.00

PIPE RUN. SIZE \_\_\_\_\_ WEIGHT \_\_\_\_\_ GRADE \_\_\_\_\_ TYPE JOINT \_\_\_\_\_ MAKE \_\_\_\_\_ NO. FT. \_\_\_\_\_

PIPE RUN. SIZE \_\_\_\_\_ WEIGHT \_\_\_\_\_ GRADE \_\_\_\_\_ TYPE JOINT \_\_\_\_\_ MAKE \_\_\_\_\_ NO. FT. \_\_\_\_\_

NO.	LENGTH OF JOINT		NO.	LENGTH OF JOINT		NO.	LENGTH OF JOINT		NO.	LENGTH OF JOINT		TALLY OF JOINTS NOT RUN			
	NO.	IN.		NO.	IN.		NO.	IN.		NO.	IN.	NO.	IN.		
Cent 1	43	82	51	42	24	101		151		201		251			
Cent 2	40	02	52	43	18	102		152		202		252	1		
Cent 3	37	93	53	43	21	103		153		203		253	2		
Cent 4	43	99	54	39	22	104		154		204		254	3		
Cent 5	44	46	55	42	96	105		155		205		255	4		
6	42	99	56	34	20	106		156		206		256	5		
7	42	65	57	43	17	107		157		207		257	6		
8	43	02	58	42	90	108		158		208		258	7		
9	43	18	59	41	38	109		159		209		259	8		
10	42	25	60	43	12	110		160		210		260	9		
11	42	39	61	44	50	111		161		211		261	10		
12	36	46	62	44	40	112		162		212		262	11		
13	35	48	63	39	70	113		163		213		263	12		
14	44	13	64	37	06	114		164		214		264	13		
15	37	13	65	41	89	115		165		215		265	14		
16	43	03	66	44	33	116		166		216		266	15		
17	42	93	67	41	49	117		167		217		267	16		
18	43	02	68	43	00	118		168		218		268	17		
19	42	77	69	42	49	119		169		219		269	18		
20	40	21	70	43	07	120		170		220		270	19		
21	40	55	71	39	10	121		171		221		271	20		
22	40	23	72	42	81	122		172		222		272	21		
23	37	15	73	42	91	123		173		223		273	22		
24	44	38	74	40	92	124		174		224		274	23		
25	42	85	75	41	91	125		175		225		275	24		
26	43	22	76	39	25	126		176		226					
27	43	98	77	44	36	127		177		227					
28	45	24	78	44	30	128		178		228					
29	33	83	79	42	66	129		179		229					
30	42	88	80	38	42	130		180		230					
31	41	90	81	44	32	131		181		231					
32	41	80	82	39	17	132		182		232					
33	44	35	83	42	85	133		183		233					
34	42	48	84	44	30	134		184		234					
35	43	65	85	42	85	135		185		235					
36	44	45	86	39	08	136		186		236					
37	42	18	87	44	31	137		187		237					
38	40	27	88	38	19	138		188		238					
39	44	12	89	44	29	139		189		239					
40	44	83	90	40	41	140		190		240					
41	38	86	91	39	40	141		191		241					
														NO. JOINTS DELIVERED	98
														NO. JOINTS RUN	95
														TOTAL RUN—OVERALL	
														OFF PORTHEADS	
														TOTAL—THREADS OFF	
														TOP PIPE BELOW:	
														<input type="checkbox"/> ROTARY DRIVE	
														<input type="checkbox"/> WASHING	
														<input type="checkbox"/> DERRICK FLOOR	
														DEPTH LANDED	4017.13
														REMARKS	
														RECEIVED	
														STATION DIVISION	
														Wichita, Kansas	
														MISSION	4112.76
														DEB 20 1992	(13) 35.48 OUT
															(22) 35.35 OUT

SERVICES

LOAD SHEET

FINAL

JOB NUMBER		CONTRACT NUMBER		DATE		DISTRICT NAME	
		071922		10-13-92		Med Lodge	
Mach Pet				VENDOR NAME			
LINE NO.	Part Number	Description	UNIT OF MEASURE	AMOUNT LOADED	DIRECT SHIPPED	AMOUNT RETURNED	
1							
2	410504	CLASS A	Q	202		100	
3	420145	RA gol	L	480		187	
4	413018	FLY Ash	Q	68		0	
5	415049	A1-P	L	721		282	
6	430476	5/8" TOP RESIN RUB	E	1		0	
7							
8							
9							
10		170 40/100 3+2					
11		Rocky Can					
12							
13							
14		100 CLASS A 3+L					
15		Front CAN					
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							

LOADED BY: Donu Satoru CUSTOMER: Gene Bundy  
 PRINTED SIGNATURE SIGNATURE  
Gene Bundy DATE: 10-13-92  
 SIGNATURE



# ORIGINAL SERVICE OPERATIONS CONTRACT CONTINUATION

CONTRACT NO. 091922

DATE OF JOB	MM <u>12</u>	DD <u>13</u>	YY <u>92</u>	DISTRICT <u>MAD COOKE</u>	DIST. NO. <u>584</u>	AUTHORIZED BY <u>TEVE BUNDY</u>
CUSTOMER <u>MACH PETROLEUM</u>						

PRICE BOOK	PRICE BOOK PER NO.	QUANTITY	DESCRIPTION	UNIT PRICE	LUM	PRICE EXTENSION
<u>0.1</u>			<u>LESS</u>			<u>307.01</u>
			<u>SUBTOTAL</u>		<u>#</u>	<u>1739.45</u>

SERVICE REPRESENTATIVE K. BUNORDT THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: Steve Bundy  
 CHECK IF CONTINUATION IS USED (WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)  
 CUSTOMER: This is not an invoice - This Service Operations Contract is subject to review and correction by our Accounting Department.