

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS COMPLETION DIVISION
WELL COMPLETION FORM
ACB-1 WELL HISTORY
DESCRIPTION OF WELL AND LOGS

APT NO. 15- 155-21,195-0000 ORIGINAL

County Reno
SE - SE - SW - 12 Sec. 24S Twp. 9W

330 Feet from (E) (circle one) Line of Section
2310 Feet from (U) (circle one) Line of Section

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

Lease Name Andsager Well # 1-12
Field Name Wildcat

Producing Formation Mississippi

Elevation: Ground 1659 KB 1667

Total Depth 4090 PSTD

Amount of Surface Pipe Set and Cemented at 160' Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from 271
feet depth to Surface w/ 135 oz cement.

Drilling Fluid Management Plan 7-15-92
(Data must be collected from the Reserve Pit)

Chloride content 60,000 ppm Fluid volume 13.78 bbls

Removal method used Vacuum Truck

Location of fluid disposal if hauled offsite:

Operator Name C & C Tank Service, Inc.

Lease Name Roach SWD License No. 30708

SW 14 Quarter 23 Sec. 9 Twp. 9W

County Reno Docket No. 22208

Operator: License # 5058

Name: Griggs Oil, Inc.

Address 107 N. Market, Suite 800

City/State/Zip Wichita, KS 67202

Purchaser: Negotiating at Present

Operator Contact Person: Jim Collins

Phone (316) 267-7779

Contractor: Name: Duke Drilling

License: 5929

Wellbit Geologist: Kris Kennedy

Designate Type of Completion
 New Well Re-Entry Workover

Oil SWD SIGW Temp. Abd.
 Gas EHRH SIGW
 Dry Other (Core, MSW, 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/SID
 Plug Back PSTD
 Cemented Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Inj?) Docket No. _____

3-31-92 4-7-92 5-6-92
Spud Date Date Reached TD Completion Date

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 208 Colorado Derby Building, Wichita, Kansas 67262, 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 Jim Collins
Title Vice President Date 7-20-92

Subscribed and sworn to before me this 20th day of JULY 19 92.
Notary Public Virginia Lee Smith

Notary Commission Expires August 25, 1992

K.C.C. OFFICE USE ONLY		
F	<input type="checkbox"/>	Letter of Confidentiality Attached
C	<input checked="" type="checkbox"/>	Wireline Log Received
L	<input checked="" type="checkbox"/>	Geologist Report Received
Distribution		
<input checked="" type="checkbox"/>	KCC	<input type="checkbox"/> SWD/Rep
<input type="checkbox"/>	KCB	<input type="checkbox"/> PLUG
		<input type="checkbox"/> NEPA
		<input type="checkbox"/> Other
		(Specify)

RECEIVED
CONSERVATION DIVISION
WICHITA, KANSAS
JUL 22 1992
7-22-92

VIRGINIA LEE SMITH
NOTARY PUBLIC
STATE OF KANSAS

Operator Name Griggs Oil, Inc. Lease Name Andsager Well # 1-12

Sec. 12 Twp. 24 Rge. 9 East of 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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log Name Heebner Brn LM LKC Stark BKC Cher Miss Miss LM Kinderhk Viola Formation (Top), Depth and Datum Top 3057 3245 3277 3535 3229 3716 3750 3808 3823 4058 Datum -1390 -1578 -1600 -1866 -1962 -2049 -2083 -2141 -2156 -2391	<input checked="" type="checkbox"/> Sample
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 (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
List All E.Logs Run:			
Dual Ind CNLD AVS Frac Finder			

CASING RECORD <input checked="" 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	12 1/2	Used 8 5/8	28#	160	60/40 Poz	135	2% gel 3%cc
Production	7 7/8	New 5 1/2	15.5#	3956	50/50 Poz	165	2% gel 10% Salt 5# Gilsonite per sx

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 TB				
<input type="checkbox"/> Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plug Set/Type Specify Footage of Each Interval Perforated.	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
2	3754-55, 3757-58, 3760-61, 3766-67	500 gal 15% HCL (PPI)	3754-3767
		1500 gal 7 1/2 FE + 87,850 SCF Nitrogen	
2	3777-78, 3780-81, 3787-88, 3790-91	2000 gal 7 1/2 FE (PPI) Frac w/Boragel	
	3798-99	54,500# 12/20 Sand.	

TUBING RECORD	Size 2 7/8	Set At 3773	Packer At N/A	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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Date of First, Resumed Production, SW or Inj. WO Pipeline Conn.	Producing Method <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)
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Estimated Production Per 24 Hours	Oil 0	Sols.	Gas 300	Water 200	Sols.	Gas-Oil Ratio	Gravity
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Disposition of Gas: <input type="checkbox"/> Vented <input checked="" type="checkbox"/> Sold <input type="checkbox"/> Used on Lease (If vented, submit ACD-18.)	METHOD OF COMPLETION <input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled	Production Interval 3754-3799
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DST #1

3710-3764 Miss.

30-60-45-90

GTS 5 min GA

311 MCF

Rec. 3423 GIP

311 MCF 30"

2nd Open GA

539 MCF 5"

418 MCF 10"

368 MCF 20"

341 MCF 30"

341 MCF 45"

ORIGINAL

15-155-21195-0000

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
217.0	0.0	50.0	0.0	50.0	GASSY MUD
124.0	0.0	20.0	75.0	5.0	GAS & MUD CUT WATER
0.0	0.0	0.0	0.0	0.0	CHLORIDES 70000 P.P.M.

RATE INFORMATION

OIL VOLUME:	0.0000	STB	TOTAL FLOW TIME:	75.0000	min.
GAS VOLUME:	7.1135	SCF	AVERAGE OIL RATE:	20.9522	STB/D
MUD VOLUME:	1.1352	STB	AVERAGE WATER RATE:	13.4871	STB/D
WATER VOLUME:	0.6585	STB			
TOTAL FLUID :	1.7937	STB			

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1832.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	182.00	172.00
INITIAL SHUT-IN	60.00		1246.00
FINAL FLOW	45.00	193.00	182.00
FINAL SHUT-IN	90.00		1246.00

FINAL HYDROSTATIC PRESSURE: 1762.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1834.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	183.00	183.00
INITIAL SHUT-IN	60.00		1253.00
FINAL FLOW	45.00	191.00	191.00
FINAL SHUT-IN	90.00		1248.00

FINAL HYDROSTATIC PRESSURE: 1774.00

RECEIVED
STATE CORPORATION COMMISSION

JUL 22 1992

CONSERVATION DIVISION
Wichita, Kansas

DST #2
3764-3774 Miss.

30-60-45-90
279 GIP
62' GOCM
124' GMCW

ORIGINAL

15-155-21195-0060

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
62.0	5.0	5.0	35.0	55.0	GAS & OIL CUT WATER & MUD
124.0	0.0	10.0	80.0	10.0	GAS & MUD CUT WATER

RATE INFORMATION

OIL VOLUME:	0.0220	STB	TOTAL FLOW TIME:	90.0000	min.
GAS VOLUME:	0.6163	SCF	AVERAGE OIL RATE:	0.8342	STB/D
MUD VOLUME:	0.3293	STB	AVERAGE WATER RATE:	18.4833	STB/D
WATER VOLUME:	0.8561	STB			
TOTAL FLUID :	1.2073	STB			

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1822.00

Description	Duration	p1	p End
INITIAL FLOW	45.00	40.00	50.00
INITIAL SHUT-IN	60.00		1246.00
FINAL FLOW	45.00	81.00	91.00
FINAL SHUT-IN	90.00		1246.00

FINAL HYDROSTATIC PRESSURE: 1772.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1821.00

Description	Duration	p1	p End
INITIAL FLOW	45.00	48.00	55.00
INITIAL SHUT-IN	60.00		1246.00
FINAL FLOW	45.00	86.00	94.00
FINAL SHUT-IN	90.00		1254.00

FINAL HYDROSTATIC PRESSURE: 1769.00

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STATE CORPORATION COMMISSION

JUL 22 1992

CONSERVATION DIVISION
Wichita, Kansas

DST #3
3774-3818 Miss.

30-30-30-30
217' GIP
93' GOCM
124' GCMW

ORIGINAL

15-155-21195-0000

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
93.0	10.0	5.0	0.0	85.0	GAS & OIL CUT MUD
124.0	0.0	5.0	85.0	10.0	GAS & MUDDY WATER

RATE INFORMATION

OIL VOLUME:	0.0659 STB	TOTAL FLOW TIME:	60.0000 min.
GAS VOLUME:	0.4314 SCF	AVERAGE OIL RATE:	15.0149 STB/D
MUD VOLUME:	0.6476 STB	AVERAGE WATER RATE:	20.0199 STB/D
WATER VOLUME:	0.7464 STB		
TOTAL FLUID :	1.4598 STB		

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1842.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	91.00	101.00
INITIAL SHUT-IN	30.00		1186.00
FINAL FLOW	30.00	142.00	152.00
FINAL SHUT-IN	30.00		1165.00

FINAL HYDROSTATIC PRESSURE: 1802.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1845.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	87.00	98.00
INITIAL SHUT-IN	30.00		1194.00
FINAL FLOW	30.00	140.00	143.00
FINAL SHUT-IN	30.00		1173.00

FINAL HYDROSTATIC PRESSURE: 1834.00

RECEIVED
STATE CORPORATION COMMISSION

JUL 22 1992

CONSERVATION DIVISION
Wichita, Kansas



HALLIBURTON SERVICES

INVOICE

A Halliburton Company

15-155-21195-0000 214707 03/31/1992

WELL LEASE NO./PLANT NAME		WELL/PLANT LOCATION		STATE	WELL/PLANT OWNER
ANDRAGER 1-17		RENO		KS	SAME
SERVICE LOCATION		CONTRACTOR	JOB PURPOSE		TICKET DATE
PRATT		DYKE DRUG CO	CEMENT SURFACE CASING		03/31/1992
ACCT NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.
344572	JOHN ARMHRUSTER			COMPANY TRUCK	32124

GRIGGS OIL INC
105 NORTH MARKET
SUITE 800
WICHITA, KS 67211

DIRECT CORRESPONDENCE TO:
FIRST OKLAHOMA TOWER
210 WEST PARK AVENUE
SUITE 2050
OKLAHOMA CITY, OK 73102-5601

PRICE REF. NO.	DESCRIPTION	QUANTITY	UM	UNIT PRICE	AMOUNT
000-117	MILEAGE	35	MI	2.60	91.00
		1	UNT		
001-016	CEMENTING CASING	189	FT	475.00	475.00
		1	UNT		
030-503	CMTG PLUG LA-11, CP-1, CP-3, TOP	8.625	IN	90.00	90.00
		1	EA		
504-308	STANDARD CEMENT	81	SK	5.88	476.28
506-105	POZNIX A	54	SK	3.29	177.66
506-121	HALLIBURTON-GEL 2%	2	SK	.00	N/C
509-406	ANHYDROUS CALCIUM CHLORIDE	3	SK	26.50	79.50
507-210	FLOCELE	34	LB	1.30	44.20
500-207	BULK SERVICE CHARGE	143	CFT	1.15	164.45
500-305	MILEAGE CMTG MAT DEL OR RETURN	212.03	MI	.80	169.62
INVOICE SUBTOTAL					1,762.71
DISCOUNT-(BID)					353.53-
INVOICE BID AMOUNT					1,414.18
**KANSAS STATE SALES TAX					37.79
**PRATT COUNTY SALES TAX					8.90
INVOICE TOTAL - PLEASE PAY THIS AMOUNT					

RECEIVED
STATE CONSERVATION COMMISSION
JUL 15 1993
ON
CONSERVATION DIVISION 87
Wichita, Kansas

TERMS 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

15-155-21195-0000

JOB LOG

JUL 13 '93 16:26 PRATT DIST OFFICE

LEASE HUNTSVILLE

TICKET NO. 2146.6713

CUSTOMER GRIGGS OIL CO.

PAGE NO. _____

JOB TYPE 8 5/8 SURFACE

DATE 3-31-92

FORM 2013 R-2

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1815							Called out Perry Wood
	1740							ON LOCATION. SET UP - Rig, CURRY, etc.
	1829							HOLE MADE - CIRCULATE HOLE
	1831							FINISH CIRCULATION
	1838							START OUT OF HOLE w/ DRILL PIPE
	1844							DRILL PIPE OUT
	1854							START 8 5/8 28" CASING ON HOLE
	1920							CASING ON HOLE
								Hook to Rig mud Pump
	1923							BREAK CIRCULATION
	1928							FINISH CIRCULATION
								Hook to Hoses:
								CEMENT AS FOLLOWS:
	1934	5.0	3.0	-	-	150		PUMP FRESH H2O SPACER
	1939	5.0	0	-	-	200		START MIXING CEMENT
	1943		30.5	-	-			FINISH MIXING CEMENT
								RELEASE PLUG
	1943	5.0	0	-	-	200		START DISPLACEMENT
	1945	5.0	9.7	-	-	200		Plug Down
	2015							JOB COMPLETE.
								NOTE: Had to JET COLLAR TO FIND CEMENT
								THANK YOU
								CALL AGAIN
								Doug

RECEIVED
STATE CORPORATION COMMISSION

JUL 15 1993

CONSERVATION DIVISION
Wichita, Kansas

HALLIBURTON SERVICES

Duncan, Oklahoma 73038

A Division of Halliburton Company

FORM 1906 R-11

15-155-21195-0060

WELL NO. - FARM OR LEASE NAME 1-12 ANDSAGER		COUNTY RENO	STATE KS	CITY / OFFSHORE LOCATION	DATE 7-31-92
CHARGE TO GRIGGS OIL CO.		OWNER Smith	TICKET TYPE (CHECK ONE) SERVICE <input type="checkbox"/> SALES <input type="checkbox"/>		NITROGEN JOB YES <input type="checkbox"/> NO <input type="checkbox"/>
ADDRESS		CONTRACTOR DUKE DRLG #2	LOCATION 1 PRATT KS		CODE 2537
CITY, STATE, ZIP		SHIPPED VIA 55504	FREIGHT CHARGES <input type="checkbox"/> PPD <input type="checkbox"/> COLLECT		LOCATION 2
WELL TYPE 01	WELL CATEGORY 01	WELL PERMIT NO.	DELIVERED TO LOC.		LOCATION 3
TYPE AND PURPOSE OF JOB 010		B-934286	ORDER NO.		REFERRAL LOCATION

As consideration, the abovesigned 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 15% 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, in 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.	COL	ACCOUNT	DESCRIPTION	LIMITS 1		LIMITS 2		LIMIT PRICE	AMOUNT
					QTY	MEAS	QTY	MEAS		
000-117				MILEAGE	35	MI/HR	1	HR	260	91 00
001-016				PUMP CHARGE	169	EA	8	4115		305 00
030-503	401-4221		20023	TOP PLUG	1	EA	8	1810		90 00

AS PER ATTACHED BULK MATERIAL DELIVERY TICKET NO.

B-934286

WAS JOB SATISFACTORILY COMPLETED? _____

WAS OPERATION OF EQUIPMENT SATISFACTORY? _____

WAS PERFORMANCE OF PERSONNEL SATISFACTORY? _____

X CUSTOMER OR HIS AGENT (PLEASE PRINT)
X *[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 SERVICES FURNISHED UNDER THIS CONTRACT.

[Signature]
HALLIBURTON OPERATOR

HALLIBURTON APPROVAL

RECEIVED
STATE CORPORATION COMMISSION
JUL 14 5 1993
CONSEV DIVISION
WILLIAMSON, MISSAS
SUB TOTAL

APPLICABLE TAXES WILL BE ADDED ON INVOICE.

2020

HALLIBURTON SERVICES

WORK ORDER CONTRACT AND PRE-TREATMENT DATA

15-155-21195-0000

FORM 1908 R-7

A Division of Halliburton Company

ATTACH TO INVOICE & TICKET NO. 214707

DISTRICT Pratt KS

DATE 3-31-92

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

WELL NO. 1-12 LEASE ANDSAGER SEC. 12 TWP. 24 RANGE 9W

FIELD _____ COUNTY Pratt STATE KS OWNED BY _____

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT

FORMATION NAME	TYPE	THICKNESS	FROM	TO	WEIGHT	SIZE	FROM	TO	MAX. ALLOW. P.S.I.
CASING					4	28	8 3/8	169	
LINER									
TUBING									
OPEN HOLE									SHOTS/FT.
PERFORATIONS									
PERFORATIONS									
PERFORATIONS									

PREVIOUS TREATMENT: DATE _____ TYPE _____ MATERIALS _____

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

Cement 8 3/8 CSC w/ 135 SKS 40/60 Per 270 GEL, 570 CC, 1/4 # Floccle

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 first 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 trespass, 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 unseaworthiness of any vessel 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 claims or liability are 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.

- d) 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. 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.
- e) 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.
- f) 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 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 (whether returned to the landing, unless such loss or damage is caused by the sole negligence of Halliburton).
- g) To waive the provisions of the Occupant Trade Practices - Consumer Protection Act, to the extent permitted by law.
- h) That this contract shall be governed by the law of the state where services are performed or materials are furnished.
- i) 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.

SIGNED [Signature] CUSTOMER

DATE 3-31-92

TIME _____ 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.

FIELD OFFICE

RECEIVED JUL 15 1993

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

15-155-21195-0000

JUL 13 '93 16:26 PRATT DIST OFFICE

OKLAHOMA CITY AREA

P.5/13

HALLIBURTON SERVICES

SUMMARY

HALLIBURTON LOCATION

Pratt KS

BILLED ON TICKET NO.

214707

WELL DATA

FIELD: SEC 12 TWP. 24 RANG. 7W COUNTY Pratt STATE KS

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 172' Total C/L TOTAL DEPTH 172'

	WELL USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	U	28	8 7/8	12	169	
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

JOB DATA

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS		
BOYOM PLUG		
TOP PLUG <u>C-21</u>	<u>8 1/2</u>	<u>Flowco</u>
HEAD <u>P.C.</u>	<u>"</u>	<u>"</u>
PACKER		
OTHER		

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>3-31</u>	DATE <u>3-31</u>	DATE <u>3-31</u>	DATE <u>3-31</u>
TIME <u>1545</u>	TIME <u>1740</u>	TIME <u>1934</u>	TIME <u>2015</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>D. Taylor</u>	<u>C1620</u>	<u>Pratt KS</u>
<u>C. Thompson</u>	<u>52504 (P)</u>	<u>"</u>
<u>D. Ray</u>	<u>56633</u>	<u>"</u>

MATERIALS

TREAT. FLUID _____ DENSITY _____ LB/GAL-API

DISPL. FLUID _____ DENSITY _____ LB/GAL-API

PROP. TYPE _____ SIZE _____ LB.

ACID TYPE _____ GAL. _____ %

SURFACTANT 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 _____

DEPARTMENT Cement

DESCRIPTION OF JOB Cement Surface P. 04

JOB DONE THRU: TUBING CASING ANNULUS TBG/ANN.

CUSTOMER REPRESENTATIVE X John O. ...

HALLIBURTON OPERATOR John Taylor COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF BAGS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<u>135</u>	<u>40/60 402</u>	<u>Flowco</u>	<u>5</u>	<u>300 BBL, 3 ACC, 74 # Fluore</u>	<u>1.27</u>	<u>14.31</u>

PRESSURES IN PSI

SUMMARY

VOLUMES

CIRCULATING _____ DISPLACEMENT _____ PRESURSH: BBL. 3 TYPE Flow RECEIVED

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

AVERAGE _____ FRACTURE GRADIENT _____ TREATMENT: BBL-GAL. _____ DISPL: BBL-GAL. 9.7

SHUT-IN INSTANT _____ 5-MIN. _____ 15-MIN. _____ CEMENT SLURRY: BBL-GAL. 30.5

ORDERED _____ AVAILABLE _____ USED _____ TOTAL VOLUME: BBL-GAL. _____

TREATING _____ DISPL. _____ OVERALL _____ REMARKS See Job Log

FEET 15 REASON By Request

CONSERVATION DIVISION
Wichita, Kansas

JUL 15 1993

CUSTOMER: Pratt Oil Co
WELL NO: 1-12
JOB TYPE: Surface