

ORIGINAL SIDE ONE

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

API NO. 15- 199-20,190-00-00

County Wallace

SE SE Sec. 32 Twp. 14 Rge. 42 East West

330 Ft. North from Southeast Corner of Section

660 Ft. West from Southeast Corner of Section
(NOTE: Locate well in section plat below.)

Lease Name Schemm 44-32 Well # 1

Field Name Clackamus

Producing Formation Morrow (Non-productive)

Elevation: Ground 3815' KB 3825'

Total Depth 5250' PBDT 5209'

Operator: License # 6417

Name: Union Pacific Resources Company

Address P.O. Box 7 - MS 3407

City/State/zip Fort Worth, TX 76101-0007

Purchaser: N/A

Operator Contact Person: Kris Curran

Phone (817) 877-7325

Contractor: Name: Murfin Drilling

License: 6033

Wellsite Geologist: Austin Garner

Designate Type of Completion

New Well Re-Entry Workover

Oil SWD Temp. Abd.

Gas Inj Delayed Comp.

Dry Other (Core, Water Supply, etc.)

If OWM: old well info as follows:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

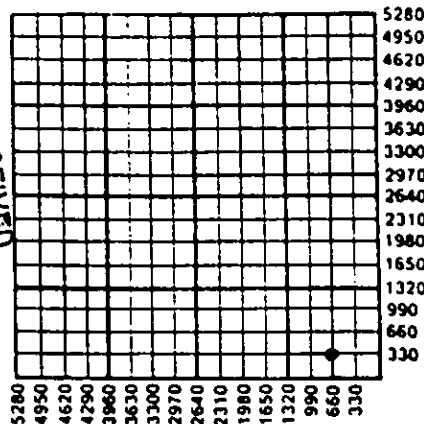
Drilling Method:

Mud Rotary Air Rotary Cable

04-08-90 04-15-90 P&A'd 08-07-90

Spud Date Date Reached TD Completion Date

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ALT. II
D & A

Amount of Surface Pipe Set and Cemented at 541 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 cmt.

CORPORATION COMMISSION
WICHITA, KANSAS

AUG 21 1990

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. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells. Any recompletion, workover or conversion of a well requires filing of ACO-2 within 120 days from commencement date of such work.

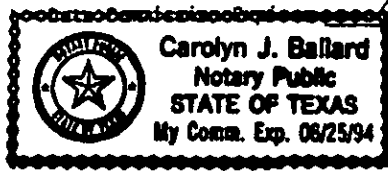
All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature Kris Curran / Kris Curran

Title Regulatory Analyst Date 08-10-90

Subscribed and sworn to before me this 20th day of August, 1990.

Notary Public Carolyn J. Ballard



K.C.C. OFFICE USE ONLY		
F	<input type="checkbox"/>	Letter of Confidentiality Attached
C	<input checked="" type="checkbox"/>	Wireline Log Received
C	<input type="checkbox"/>	Drillers Timelog Received
Distribution		
<input checked="" type="checkbox"/>	KCC	<input type="checkbox"/> SWD/Rep
<input type="checkbox"/>	KGS	<input type="checkbox"/> Plug
		<input type="checkbox"/> NGPA
		<input type="checkbox"/> Other (Specify)

P1

ORIGINAL

SIDE TWO

Operator Name Union Pacific Resources Company Lease Name Schemm 44-32 Well # 1

Sec. 32 Twp. 14S Rge. 41 East West County Wallace

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.)

Dual Induction/SFL-GR
Borehole Compensated Sonic/GR
Lithodensity/Compensated Neutron/GR
SHDT-GR

Name	Formation Description	
	Top	Bottom
Codell	1158'	1174'
Stone Corral	2820'	3321'
Lansing-KC	4212'	4613'
Marmaton	4614'	4738'
Atoka	4870'	4986'
Morrow	4987'	4995'
Morrow Sand	4996'	5089'
Lower Morrow	5090'	-

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
Surf csg	12-1/4"	8-5/8"	23	541'	C1 'G'	375	2%CaCl+1/4#Flocele
Intermediate	7-7/8"	5-1/2"	15.5	5253'	STD & 50/50 Poz	400	2%gel+3%KCL & 3/4%Halad-322 & 1/4# Flocele

Shots Per Foot	PERFORATION RECORD Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
4	Morrow 5014-5020'	100 gal Clayfix, 300 gal	5012-20'
4	Morrow 5012-5014'	7-1/2% MCA, 200 gal 2-3 H.F. acid & 1250 gal Clayfix	

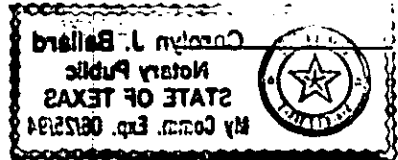
TUBING RECORD Size N/A Set At N/A Packer At N/A Liner Run Yes No

Date of First Production <u>N/A</u>	Producing Method <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)
Estimated Production Per 24 Hours	Oil Bbls. Gas Mcf Water Bbls. Gas-Oil Ratio Gravity

Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACO-18.)

METHOD OF COMPLETION: Open Hole Perforation Dually Completed Commingled Other (Specify) P&A'd 08-07-90

Production Interval



ORIGINAL

PAGE 1 OF 2 PAGES



Surface

TICKET NO. 910507-4

A Division of Halliburton Company

15-199-20190-00-00

FORM 1908 R-11

WELL NO. - FARM OR LEASE NAME 1 Schemm 44.32		COUNTY Wallace	STATE Ks	CITY / OFFSHORE LOCATION	DATE 4.9.90
CHARGE TO Union Pacific Resource Co		OWNER UPRC	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 Murfin 25	LOCATION 1 Lomer Co		CODE 50415
CITY, STATE, ZIP		SHIPPED VIA Howco	FREIGHT CHARGES PPD <input type="checkbox"/> COLLECT <input type="checkbox"/>	LOCATION 2	
WELL TYPE 01	WELL CATEGORY 01	WELL PERMIT NO.	DELIVERED TO Loc S Wesleyan		LOCATION 3
TYPE AND PURPOSE OF JOB 010		B-815020	ORDER NO. AFE 00434	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				MILEAGE	60	mi			2.20	132.00
001 016				Casing Job	542	ft			491.80	491.80
030 503				Top Warden Plug	1	ea	8 5/8"		59.00	59.00
16 A	830.2171			Type M Shoe	1	ea			161.00	161.00
40	807.93059			Centralizers	3	ea			53.00	159.00
66	807.64056			Clamp	1	ea			13.75	13.75
597	825.1266			Booth Plate	1	ea			91.00	91.00
011 205				Misc Job - Top Outside Job	4	hrs	200	AFE	715.00	590.00
019 200				1" Pipe Co. Top Outside	100	ft	min. med		45.00	45.00

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Wichita, Kansas

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AS PER ATTACHED BULK MATERIAL DELIVERY TICKET NO. **B-815020** 3565 63

WAS JOB SATISFACTORILY COMPLETED? _____
 WAS OPERATION OF EQUIPMENT SATISFACTORY? _____
 WAS PERFORMANCE OF PERSONNEL SATISFACTORY? _____

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.

[Handwritten Signature]

5308 18

15-199-20190-00-00

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**BULK MATERIALS DELIVERY
AND
TICKET CONTINUATION**

FOR INVOICE AND TICKET NO. 910507

DATE 4-9-90	CUSTOMER ORDER NO.	WELL NO. AND FARM # 1 Shemm 44-32	COUNTY Wallace	STATE KS.
CHANGE TO UPRC	MAILING ADDRESS	OWNER Same	CONTRACTOR MURFIN 25	No. B815020
CITY & STATE	DELIVERED FROM LAMAR	LOCATION CODE 50415	PREPARED BY MCINTYRE	
	DELIVERED TO LOC.	TRUCK NO. 0537-5070	RECEIVED BY PAINTER <i>TP</i>	

PRICE REFERENCE	SECONDARY REF. OR PART NO.	CODE		DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT
		L	D		QTY.	MEAS.	QTY.	MEAS.		
504-316				HALLIBURTON LIGHT CEMENT	200	sks			5.80	1060.00
504-308				STANDARD CEMENT	75	SKS			5.90	442.50
509-406				CALCIUM CHLORIDE 2% w/all	6	SKS			30.00	180.00
507-210				FLOCELE 1/4# w/all	69	#			1.29	89.01
504-308				STANDARD CEMENT	100	sks			5.90	590.00
509-406				Calcium Chloride 2% on side	2	sks			30.00	60.00
507-210				Flocele 1/4# on side	25	#			1.29	32.25
<p>RECEIVED STATE CORPORATION COMMISSION 21-1890 CONSERVATION DIVISION Wichita, Kansas</p>										
				Returned Mileage Charge	TOTAL WEIGHT		LOADED MILES		TON MILES	
				SERVICE CHARGE ON MATERIALS RETURNED					CU. FEET	
500-207				SERVICE CHARGE					CU. FEET 387	.95 367.65
500- 314 306				Mileage Charge 35439	TOTAL WEIGHT		60 LOADED MILES		1063.17 TON MILES	.70 744.22

15-199-20190-00-00

0181



**WORK ORDER CONTRACT
AND PRE-TREATMENT DATA**

FORM 1808 FI-7

A Division of Halliburton Company

ATTACH TO
INVOICE & TICKET NO.

DISTRICT Liberal

DATE 4-9-90

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

WELL NO. 1 LEASE Schemm 414-32 SEC 32 TWP. 14 RANGE 42

FIELD _____ COUNTY Wallace STATE Ks OWNED BY U P R C

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT

FORMATION NAME _____ TYPE _____
FORMATION THICKNESS _____ 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

	NEW USED	WEIGHT	SIZE	FROM	TO	MAX. ALLOW. P.S.I.
CASING		24	8 5/8	KB	542	
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

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2-11-1990
CONSERVATION DIVISION
Wichita, Kansas

PREVIOUS TREATMENT: DATE _____ TYPE _____ MATERIALS _____

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

Cement Surface Casings with 200 HLC & 75 Std oil with 2% CC, 1/4" floccs

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

- 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.
- 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:
 - 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.
 - Reservoir, formation, or well loss or damage, subsurface trespass or any action in the nature thereof.
 - 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 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.
- 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.
- 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.
- 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.
- To waive the provisions of the Deceptive Trade Practices - Consumer Protection Act, to the extent permitted by law.
- That this contract shall be governed by the law of the state where services are performed or materials are furnished.
- 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.

[Signature]

15199-20190-00-00

SOM-9-89-SW-C-7672

56.3 min K.S



JOB SUMMARY

HALLIBURTON DIVISION Wichita
HALLIBURTON LOCATION Lamer, Co

BILLED ON TICKET NO 910507

WELL DATA

FIELD _____ SEC. 32 TWP. 14 RNG. 42 COUNTY Wallace 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 _____ TOTAL DEPTH _____

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING		24	8 5/8	KB	542	
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>4-9-90</u>	DATE <u>4-9-90</u>	DATE <u>4-9-90</u>	DATE <u>4-9-90</u>
TIME <u>0420</u>	TIME <u>0800</u>	TIME <u>1230</u>	TIME <u>1500</u>

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FRONT COVER <u>Fiber baffle</u>	<u>1</u>	<u>Howco</u>
GUIDE SHOE <u>Type M</u>	<u>1</u>	<u>"</u>
CENTRALIZERS <u>5.4</u>	<u>3</u>	<u>"</u>
TOP PLUG <u>Wood</u>	<u>1</u>	<u>"</u>
OTHER <u>Clamp</u>	<u>1</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.
 NE AGENT TYPE _____ IN.
 FLUID LOSS ADD. TYPE _____ GAL-LB.
 GELLING AGENT TYPE _____ GAL-LB.
 FRIC. RED. AGENT TYPE _____ GAL-LB.
 BREAKER TYPE _____ GAL-LB.
 BLOCKING AGENT TYPE _____ GAL-LB.
 PERFPAC BALLS TYPE _____ QTY.
 OTHER _____

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 Wichita, Kansas
 APR 11 1990

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>FE Painter 44366</u>	<u>33670</u>	<u>Lamer, Co</u>
<u>R Taylor 24033</u>	<u>6595</u>	
<u>R Leslie 96332</u>	<u>5070</u>	

DEPARTMENT CMT
 DESCRIPTION OF JOB Cement Surface Casing
 JOB DONE THRU: TUBING CASING ANNULUS TBG/ANN.

CUSTOMER REPRESENTATIVE XBJ Lopez 00434
 HALLIBURTON OPERATOR FE Painter COPIES REQUESTED 2

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
<u>1</u>	<u>200</u>	<u>HLC</u>	<u>I</u>	<u>B</u>	<u>2% CC, 1/4 Flocc</u>	<u>1.84</u>	<u>12.2</u>
<u>2</u>	<u>75</u>	<u>STJ</u>	<u>I</u>	<u>B</u>	<u>"</u>	<u>1.18</u>	<u>15.6</u>
<u>3</u>	<u>100</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>"</u>

PRESSURES IN PSI

CIRCULATING _____ DISPLACEMENT _____
 BREAKDOWN _____ MAXIMUM _____
 AVERAGE _____ FRACTURE GRADIENT _____
 SHUT-IN: INSTANT _____ 5-MIN. _____ 15-MIN. _____
 HYDRAULIC HORSEPOWER _____
 ORDERED _____ AVAILABLE _____ USED _____
 AVERAGE RATES IN BPM _____
 TREATING _____ DISPL. _____ OVERALL _____
 CEMENT LEFT IN PIPE _____

SUMMARY

PRESLUSH: BBL-GAL 35 TYPE Water
 LOAD & BKDN: BBL-GAL _____ PAD: BBL-GAL _____
 TREATMENT: BBL-GAL _____ DISPL. BBL-GAL 32
 CEMENT SLURRY: BBL-GAL 66.3 + 15.8 + 21
 TOTAL VOLUME: BBL-GAL _____

REMARKS

100 sbs std Top Outside

CUSTOMER UPRC
 LEASE Shenm 44.32
 WELL NO. 1
 JOB TYPE Surface
 DATE 4-9

15-199-20190-00-00

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**WALBURTON SERVICES
JOB LOG**

WELL NO. 1 LEASE Shemm 44-32 TICKET NO. 910507
 CUSTOMER UPRC PAGE NO. 1
 JOB TYPE Sulfara DATE 8-9-90

FORM 2013 R-2

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL / GAL)	PUMP TURNS	PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
					HOSE	CASING	
	0420						Called out
	0800						On Location (unit 6595 P)
	1000						Start casing
	1234						Rise up to Circ casing
	1254	7		✓	200		Start 35 bbls water. Thud
	1259	7	35	✓	200		Start mixing HLC 200 sks
		3 1/2	66	✓	0		HLC mixed lost circ after 31 bbl
		3 1/2		✓	0		Start mixing STD 75 sks
		3 1/2	16	✓	0		Mixing complete - Drop Plug
	1316	3 1/2		✓	0		Start Disp
	1326	3 1/2	32	✓	0		Plug Landed
							Never regain circ - mud to bottom of collar but will not fill wait to see how far fluid falls
	1420	1		✓	150		(mix 100 sks STD 2% cc Keflora) for Top Outside
	1440	1	21	✓	150		
							circulate approx 6 bbls good report collar not falling

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Wichita, Kansas

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CONSERVATION DIVISION
Wichita, Kansas

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CONSERVATION DIVISION
Wichita, Kansas

Thanks
Call Appreciate
Saul Richard L

15-199-20190-00-00

Moore © Speediset © - Patented 306

ORIGINAL

Long Street



HALLIBURTON SERVICES
Duncan, Oklahoma 73138

A Division of Halliburton Company

TICKET

NO. 910741-7

PAGE 1 OF 1 PAGES

FORM 1906 R-11

WELL NO. - FARM OR LEASE NAME 1 Shemm 44-32		COUNTY Wallace	STATE KS	CITY / OFFSHORE LOCATION		DATE 4-17-90
PURCHASER TO Union Pacific Resources Co		OWNER UPRC		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 MURFIN #25		LOCATION 1 LAMAR, CO		CODE 50415
CITY, STATE, ZIP		SHIPPED VIA Co TRK		FREIGHT CHARGES <input type="checkbox"/> PPD <input type="checkbox"/> COLLECT		LOCATION 2
WELL TYPE 01		WELL CATEGORY 03		WELL PERMIT NO.		DELIVERED TO 3
TYPE AND PURPOSE OF JOB 035		B-815025		ORDER NO. AFE 00434		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			
200-117				MILEAGE	60	mi			2.20	132	00
201-016				Pump Charge	5250	ET	8	HRS		1200	00
230-016				SW Rubber Plug	1	EA	5	1/2 in		47	00
218-315				Mud Flush	500	gal			.45	225	00

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Wichita, Kansas

AS PER ATTACHED BULK MATERIAL DELIVERY TICKET NO. B-815025 6051 53

WAS JOB SATISFACTORILY COMPLETED? _____
WAS OPERATION OF EQUIPMENT SATISFACTORY? _____

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.

7658 53

0241

15-190-20190-00-00



**WORK ORDER CONTRACT
AND PRE-TREATMENT DATA**

FORM 1908 R-7

A Division of Halliburton Company

ATTACH TO INVOICE & TICKET NO. 910741

DISTRICT Libera

DATE 4-17-90

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

WELL NO. 1 LEASE Shemms 44-31 SEC. 32 TWP. 14S RANGE 42W

FIELD Wildcat COUNTY Wallace STATE Ks. OWNED BY Union Pacific Resources

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.
CASING		U	24	8 7/8	KB	540	
LINER							
TUBING		N	15.5	5 1/2	KB	5250	
OPEN HOLE							SHOTS/FT.
PERFORATIONS							
PERFORATIONS							
PERFORATIONS							

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PREVIOUS TREATMENT: DATE _____ TYPE _____ MATERIALS _____

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

Cement 5 1/2" Long string

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

- 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.
 - 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:
 - 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.
 - Reservoir, formation, or well loss or damage, subsurface trespass or any action in the nature thereof.
 - 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 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.
- 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.
 - 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.
 - 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.
 - To waive the provisions of the Deceptive Trade Practices - Consumer Protection Act, to the extent permitted by law.
 - That this contract shall be governed by the law of the state where services are performed or materials are furnished.
 - 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

15-99-20190-00-00

50M-9-89-SW-C-7872



JOB SUMMARY

HALLIBURTON DIVISION
HALLIBURTON LOCATION

Wichita

LAMAR, CO

BILLED ON TICKET NO 910741

WELL DATA

FIELD Wildcat SEC. 32 TWP. 11S RNG. 42W COUNTY Wallace STATE Ks

FORMATION NAME	TYPE	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING		N	15.9	5 1/2	KB	5250	
LINER							
TUBING							
OPEN HOLE							SHOTS/FT.
PERFORATIONS							
PERFORATIONS							
PERFORATIONS							

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 _____

JOB DATA

TOOLS AND ACCESSORIES	DATE	ON LOCATION DATE	JOB STARTED DATE	JOB COMPLETED DATE
	4-17-90	4-17-90	4-17-90	4-17-90
	TIME 1500	TIME 1830	TIME 2130	TIME 2230

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
G.D. MOORE 4606	33670	LAMAR, CO
R. TAYLOR D-4033	3801	LAMAR, CO
D. HARRIS 96493	1543 4669	LAMAR, CO

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DEPARTMENT Cement
 DESCRIPTION OF JOB Cement 5 1/2" Longstring

JOB DONE THRU: TUBING CASING ANNULUS TBG/ANN.

CUSTOMER REPRESENTATIVE XBL Loop 00434
 HALLIBURTON OPERATOR H.D. Moore COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
1		50/50 Pozmix	IDEAL	B	2% Cel 3% KCL, 7.5% HALM 322.25% FRACK	1.89	14.8
2	150	STR	IDEAL	B	3% KCL, 1.5% HALM 322.25% CFB 2% FRACK	1.18	14.0

PRESSURES IN PSI

CIRCULATING _____ DISPLACEMENT _____
 BREAKDOWN _____ MAXIMUM _____
 AVERAGE _____ FRACTURE GRADIENT _____
 SHUT-IN: INSTANT _____ 5-MIN _____ 15-MIN. _____
 HYDRAULIC HORSEPOWER _____
 ORDERED _____ AVAILABLE _____ USED _____
 AVERAGE RATES IN BPM _____
 TREATING _____ DISPL. _____ OVERALL _____
 CEMENT LEFT IN PIPE _____

SUMMARY

VOLUMES
 PRESUSH: BBL-GAL 20 WATER 10 MUD 10 WATER
 LOAD & BKDN: BBL-GAL _____ PAD: BBL-GAL _____
 TREATMENT: BBL-GAL _____ DISPL: BBL-GAL 123.9
 CEMENT SLURRY: BBL-GAL 105.42
 TOTAL VOLUME: BBL-GAL _____

REMARKS

Thank You For Calling

CUSTOMER Union Pacific Resources Co. - St. Louis 44-32 WELL NO. 1 JOB TYPE 5 1/2" Longstring DATE 4-17-90

15-199-20190-00-00

SPEEDSET © MOORE BUSINESS FORMS, INC. - N

HALLIBURTON SERVICES JOB LOG

WELL NO. 1 LEASE Shemp 44.32 TICKET NO. 910741
 CUSTOMER Union Pacific Resources Co. PAGE NO. 1
 JOB TYPE 5 1/2" Long String DATE 4-17-90

FORM 2013 R-2

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (ACT)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1500							Called out Unit #6595-P
	1900							Request on Loc
	1830							ON LOC, Rig Running Csg.
	2010							START Circulate w/Rig
	2015							Stop Circulate Pickup Joint Tag
	2040							START Circulate w/Rig
1	2130	7	20				200	START WATER Ahead
2	2130	7	10				200	START Mud Flush
3	2137	7	20				200	START WATER behind
4	2139						200	START Mixing Cement
5	2150	7	105				200	Finish Mixing Cement
6	2155						0	Drop Plug + Washup
7	2158						200	START Displacement
8	2215	7	124				750	Finish Displacement
9	2215						1500	Plug Lander Floatheld
	2230							Job Complete

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 4/21/1990
 CONSERVATION DIVISION
 Wichita, Kansas

THANK YOU
 Richard
 Darnell
 Harry

15-199-20190-00-00

ORIGINAL

UNION PACIFIC RESOURCES CO.
#1 SCHEMM 44G-32
SEC. 32-14S-41W
WALLACE CO., KANSAS

K C C

15-199-20190-00-00

KCC

RESUME

OPERATOR: UNION PACIFIC RESOURCES CO.
WELL NAME & NUMBER: #1 SCHEMM 44G-32
LOCATION: 330 PSL, 660 FSL
SEC. 32-14S-41W
COUNTY & STATE: WALLACE CO., KANSAS
SPUD DATE: APRIL 8, 1990
COMPLETION DATE (TD): 0505 AM: 4/15/90
ELEVATIONS: GL 3815 KB 3825
TOTAL DEPTHS: DRILLER 5250 STRAP 5251
E-LOGS 5255
CONTRACTOR: MURFIN RIG #21
GEOLOGICAL CONSULTANT: AUSTINGARNER, WILDCATWELL
LOGGING, INC.
ENGINEER: BOBBY COOPER
TOOL PUSHER: REX SALLING
MUD COMPANY: DAVIS MUD COMPANY
MUD TYPE: CHEMICAL
HOLE SIZES: 12 1/4 SURFACE TO 542, 7
7/8 FROM 542 TO 5250
CASING: 8 5/8 SET @ 542
CORES: 0
DSTS: DST #1 FROM 5004-5017
LOGS: SCHLUMBERGER, FT. MORGAN,
COLORADO
LOGS SUITES: DIL SFHGR BHC/G LOT/CNLGR
DIPMETER

LOGGING ENGINEER: JEFF CUTLER
 BOTTOM FORMATION: MISSISSIPPI
 WELL STATUS: PIPE SET

BIT RECORD

NO.	SIZE	MAKE	TYPE	DEPTH OUT	FOOTAGE	HOURS
1	12 1/4	SEC	533G	542	542	5 3/4
2	7 7/8	HTC	ATJ05	2872	2270	22 1/4
3	7 7/8	HTC	ATJ11C	5250	2418	

MUD RECORD

DEPTH	WEIGHT	VISCOSITY	PV/YP	PH	FIL	CHL	CAL	LCM	COST
90	9.3	35	-----	---	---	500	100	--	\$594
835	8.7	27	-----	---	---	500	90	--	\$997
2910	9.5	28	-----	---	---	3000	1280	--	\$2624
3925	8.8	40	13/6	11	12.8	11000	40	10	\$3269
4195	8.9	38	14/7	10.5	12.8	5000	80	3	\$4863
4785	9.0	36	15/9	9	11.2	2500	60	2	\$6955
5250	9.3	58	23/15	9	7.2	1600	60	1	\$8220

DRILLING PARAMETERS

DEPTH	REVOLUTIONS	WEIGHT	PUMP PRESSURE	STROKES
3900	85	38	1150	63
4380	85	38	1200	63
4872	85	38	1200	63
5000	110	33	900	55
5200	80	38	1200	64

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DEVIATION SURVEYS

DEPTH	SLOPE	DEPTH	SLOPE
134	1/2	2812	1
258	1/4	3400	1/2
408	3/4	4075	1/2
542	1/4	5150	1/2
1050	1 1/2	5250	
1669	1		
2193	1 1/4		

CHRONOLOGY UPRC #1 SCHEMMS 44G-32

4-8-90	0600 DEPTH	RIG UP SPUD IN 1145 PM
4-9-90	540	DRLG W/SURVEYS, CIRC @ 0645, WIPER TRIP, CIRC, TOH, RUN 13 JTS 8 5/8" CSG, M-50 CSG SET @ 542' CEMENT WITH 1", WOC, NIPPLE UP, TIH, TAG CEMENT @ 489', PSI TEST BOP, DRILL PLUG
4-10-90	1345	DRILLING FORMATION 1245 AM, SURVEYS, DRILLING WITH PARTIAL RETURNS 1390-1644, LOST BBLs @ 1644, 3/4 RETURNS 1800 TO 2025, LOST APPROX 325 BBLs
4-11-90	2885	DRILLING SURVEYS, DROP FLAG, TOOH FOR HOLE IN DRILL COLLAR, TIH, LOSING MUD 3675
4-12-90	3720	DRILLING AND SURVEYS, LOSING MUD 4230 (LANSING POR)
4-13-90	4380	DRILLING AND SURVEYS, SEEPING MUD 4600-4700

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15-199-20190-0000

CHRONOLOGY CONT'D

4-14-90	4870	DRILLING AND SURVEYS, RTD 0515 AM CST CIRC, SHORT TRIP
4-15-90	5250	CIRC & COND MUD, SURVEY, TOOH W/ STRAP, STRAP 5252.39, E-LOGS TD 5255 LOGGING, TIH, CIRC & COND MUD FOR DST #1, PACKERS @ 4997-5004 BTM PACKER @ 5017, INTERVAL TESTED 5004-5017, UPPER MORROW V1 SND
4-16-90	5250	CONDUCTING DST #1

LAGGED LITHOLOGY 3900-5250 UPRC SCHEMM

3900-30	15%	LS: LT BRN, SLI GY, FRM DNS VF GRNY F XLN W/SCATT DOLO ABDT ANHY CAVINGS
	85%	SH: LT GY, GRN, ABDT REDS, FRM, SLTY, TR ORGANIC
3930-60	40%	LS: LT GY, SLI BUFF, FRM, VF GRNY, F XLN, INTDB DOLO, NO SHOW,
	60%	SH: LT GY, ABDT GRNS, & REDS, FRM, SLTY, IP, SME CALC
3960-90	30%	DOLO, LT GY, OFF WH, VF RHOMBIC, SUGARY, W/TR F XLN, V/SLI SHLY IP, NO SHOW
	40%	SH: LT GY, ABDT GRNS & REDS, FRM, SLTY, IP, SME CALC
3990-4020	70%	LS: COMINGLED W/DOLO AAB
	30%	LGY, MED GY, DNS CALC
4020-50	70%	LS: COM BUFF, PRED SFT, VF GRNY, S CHLKY, SME MD XLN, VF OOL IP, TR CRM, CHLKY, MILKEY, WH CHT, INTBD DOLO, SCATT DULL YEL MIN FLOR NSOC
	30%	SH: REDS, GRNS, SME GY, FRM TO SLTY SLI CALC

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4050-80	75%	LS: SLI BUFF, BRN, SME GY, GRN, F XLN, INTBD SOLO, SCATT CHT, SLI ARGIL, IP, NO SHOW
	5%	SS: LT GY, GY, VF GR, RD W/SRTD, FRI, SLI CALC IP, GRN MIN, MICRO PYR, NFSOC
	20%	SH: REDS, GRNS, SME GY, FRM TO SLTY SLI CALC
4080-4110	80%	LS: LT GY, SME BUFF, FRM, DNS GRNY F XLN, TR CHT, DOLOMITIC IP, CLR CALCITE VEINS, & LENS, NO SHOW
	5%	SS: LT GY, GY, VF GR, FRM, SLTY, SHLY IP, PYR, NFSOC
	15%	SH: BLK, DK GY, FRM, PLATY, ORGANIC, W/ABDT RED SH CAVINGS
4110-40	75%	LS: CRM, OFF WH, FRM, SFT, CHLKY, W/INCRS DNS MED XLN, GRNY, SCAT DOLO, NO SHOW
	25%	SH: REDS, GRNS, SME GY, UP HOLE CAVINGS
4140-70	70%	LS: LT GY, HD DNS CRYPTO XLN, BECOMG LT GY, OFF WH, SLI BUFF, SFT CHLKY, GRNY TO F XLN, SLI ARGIL, TR SLI SNDY, NO SHOW
	30%	SH: LT GYS, GRNS, REDS, FRM, SFT GRNY TEXT, SME SLI CALC, MICA INCRS, BLK, SFT, PLATY, SLI CALC, COALY
4170-4200	80%	LS: LT GY, DNS VF XLN (SCATT) PRED LS; SLI BUFF, GY, VF OOL IP, VF GRNY S CHLKY, INCRS DOLO, TR FOSS, NO SHOW
	20%	SH: LT GY, FRM, SLTY, SLI CALC, ABDT RED & GRNS SH CAVINGS
4200-30	75%	LS: LT GY, BUFF, F OOLMOLDIC, W/CLR-TN, VF XLTS, MATRIX, FREE OPAQ, RD, OOIIDS, MICRO PYR, ABDT SFT SLI CRM CHLK, DULL YEL FLOR, NO STN OR CUT, OOLM & INTR POR
	25%	SH: LT GY, FRM, SLTY, SLI CALC, ABDT RED & GRNS SH CAVINGS
4230-60	80%	LS: LT GY, BUFF, F OOMOLDIC, W/CLR-TN

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VF XLTS, MATRIX, FREE OPAQ, RD, OOIIDS
MICRO PYR, ABDT SFT SLI CRM CHLK, DULL
YEL FLOR, NO STN OR CUT, OOLM & INTR
POR, BECOMG SLI DOLOMITIC
20% SH: GY SFT SMO, NON CALC, SLTY IP

4260-90 10% DOLO: BRN, DNS, VF RHOMBIC, NO SHOW
70% LS: OFF WH, SLI BUFF, GRNY, OOL, F XLN,
S CHLKY IP, DOLOMITIC, TR FOSS, SCATT
FREE OOIIDS, NO SHOW
20% SH: GY, MED GY, BLKY, FRM, SLTY IP, TR
CALC, ABDT RED SH CAVINGS

4290-4320 80% LS: LT BRN, GY BUFF, DNS CRYPTO XLN,
W/ABDT GRNY S CHLKY, W/DNS INCLUS
TR FOSS, NO SHOW
20% SH: GY, MED GY, BLKY, FRM, SLTY IP, TR
CALC, ABDT RED SH CAVINGS

4320-50 80% LS: LT GY, OFF WH, DNS GRNY, F XLN, SME
OOL, DOLOMITIC IP, TR PINK, CHLK, FREE
PYR, NO SHOW
20% SH: GY, LT GY/GRN, SFT, SLTY, SLI SNDY
IP, ABDT UPHOLE CAVINGS

4350-80 70% LS: BRN, LT GY, DNS GRNY F XLN, SILIC
IP, NO SHOW
10% DOLO: LT BUFF, GY, DNS VF RHOMBIC
20% SH: GY, MED GY, FRM PLATY

4380-4410 70% LS: CRM, BUFF, INCRS DNS F XLN, OPAQ
CHT, INCRS ARGIL, NO SHOW
30% SH: GY, LT GY, FRM, SLTY, SLI SNDY, CALC

4410-40 80% LS: LT BUFF/GY, PRED VF GRNY F XLN,
W/SME VF GRNY S CHLKY, TR PELLETS
ABDT WH OPAQ CHT, NO SHOW
20% SH: GY, LT GY, FRM, SLTY, SLI, SNDY,
CALC, W/ABDT RED SH CAVINGS

4440-70 80% LS: LT BUFF, SLI CRM, GRNY, VF
OOLMOLDIC IP PRED GRNY F XLN
W/INTBD DOLO, NO SHOW GRDS TO LS SLI
CRM, BUFF, FRM, G GRNY, S CHLKY, TR
FOSS, INCRS GY DNS GRNY F XLN
20% SH: GY, LT GY, FRM, SLTY, SLI, SNDY,
CALC, W/ABDT RED SH CAVINGS

4470-4500 75% LS: BUFF, SLI CRM, SFT GRNY, CHLKY, TR
FOSS, TR PINK CHLK, TR OOIIDS, NO SHOW

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25% SH: DK GY, BLK, FRM, PLATY, ORGANIC,
W/INCRS DOLO, ABDT UPHOLE CAVINGS

4500-30 70% LS: LT GY, OFF WH, BRITTLE TO HD DNS
GRNY F XLN, SLI ARGIL, SCATT FOSS, NO
SHOW
30% SH: BLK, BRITTLE, PLATY, ORGANIC MICA,
PYR

4530-60 75% LS: LT TN/GY PRED HD DNS CRYPTO XLN,
SCATT CHT, ABDT GRNY FRM, F XLN, SCATT
SOLOMITIC, NO SHOW
25% SH: GY GY/GRN, SFT, SLTY, SLI CALC, SLI
SNDY

4560-90 70% LS: LT BRN, GY PRED HD DNS F XLN, SLI
ARGIL, CLR CALCITE XLTS, NO SHOW
30% SH: GY, MED GY, FRM, PLATY, CALC, W/GYP
FIBERS, ABDT RED SHALES

4590-4620 10% SS: GY, LT GY, SME CLR, VF GR, RD
W/SRTD, FRI, CALC, ARGIL IP, NFSOC
60% LS: LT GY, TN, PRED, DNS, CRYPTO XLN,
SCATT CHT, NO SHOW
30% SH: GY, MED GY, FRM, SLTY, SNDY CALC

4620-4650 60% LS: BRN, BUFF, SLI GY, PRED HD DNS GRNY
FOSS F XLN, PYR, SLI ARGIL, TR SNDY,
BECOMG LT TN, SLI GY, TINT, BUFF,
BRITTLE GRNY F XLN, TR OOL, INCRS DNS
ARGIL, NO SHOW
40% SH: DK GY, GY FRM, SLI SLTY, CALC, SME
GRN, W/ABDT UPHOLE CAVINGS

4650-80 60% LS: BUFF, SLI TN, DNS CRYPTO XLN, INTBD
GRNY, SFT CHLKY, TR DOLOMITIC, PYR, TR
FOSS, WH, CHT, NO SHOW
10% SS: LT BRN, VF GR, W/SRTD, RD, SFT FRI,
SLTY, MICRO MICA, PYR, SLI TRASH, GRDS
TO LS, NFSOC
30% SH: DK GY, GY FRM, SLI SLTY, CALC, SME
GRN, W/ABDT UPHOLE CAVINGS

4680-4710 70% LS: GY, MED GY, DNS F XLN, W/ABDT LS
CAVINGS AAB
30% SH: BLK, DK GY, FRM, ORGANIC, INCRS
SLTY, LMY, ABDT RED SH

4710-4740 60% LS: TN GY, GRNY, F XLN, TR OOL, ARGIL,
W/ABDT BUFF TN, FRM GRNY F XLN, SME
FOSS, NO SHOW
40% SH: BLK, FRM, SLI CALC, CARBY

4740-70 50% LS: LT GY, BECOMG BUFF, SFT, S CHLKY,
SLI ARGIL, TR PELLETS, MICRO PYR, NO
SHOW
10% DOLO: BRN, BUFF, HD DNS, ARGIL IP,
BECOMG LS
40% SH: BLK, FRM, SLI CALC, CARBY, BECOMG
SLTY SH, W/ABDT RED-GRN SHALES

4770-4800 65% LS: TN HD, DNS CRYPTO XLN, W/ABDT BRN,
BUFF, SFT S CHLKY, INCRS HD DNS F XLN
NO SHOW
35% SH: BLK, DK GY, FRM, BLKY, SLTY, NON-
CALC

4800-30 75% LS: LT GY, TN PRED HD DNS VF F XLN,
SME VF GRNY/ERTY, SCATT MICRO FOSS
25% SH: BLK, SFT, PLATY, ORGANIC, NO CALC

4830-60 60% LS: TN, BRN, SLI GY, DNS F XLN
40% SH: GY, DK GY, SFT SLTY, CALC, TR
STRINGERS, TR CARBY

****NOTE SAMPLE QUALITY IS VERY POOR THROUGHOUT LOGGED INTERVALS****

4860-90 50% LS: TN, GY, MOTT BUFF, PRED CRYPTO
XLN, TRANS CHERT
50% SH: BLK, DK GY, FRM, BLKY, VF TEXT,
ORGANIC, MICA, W/ABDT LS CAVINGS

4890-4920 50% LS: LT GY, GY, SME BRN, PRED HD DNS
CRYPTO XLN, ADBT BLK CHT, MICRO
FOSS, INTBD ERYTLS, GRDS TO SH, NO
SHOW
50% SH: BLK, FRM, VF TEXT, CARBY, ADBT RED
SH CAVINGS

4920-50 70% LS: GY TO LT GY/BRN, VF GRNY, F XLN,
ERTY, FOSS FRAGS, CHT FLAKES, PYR, NO
SHOW
30% SH: BLK, DK GY, FRM TO SFT, CARBY IP,
SLTY, SLI CALC, ADBT RED SH

4950-80 65% LS: SLI BUFF FRM, GRNY S CHLKY, INCRS
F XLN, ARGIL, CATT MIN FLOR NSOC

15-199-20190-00-00

KCC

BECOMG, LS GY NRN, VF SUCRS, LAMF XLN
ERTY IP, SCATT FOSS, ABDT CHT, PYR,
INTBD SH, NO SHOW
35% SH: BLK, DK GY, FRM, SLTY CARBY W/TR
LIGNITIC, ABDT RED SHALE

4980-5000 70% LS: TN BUFF, GRNY F XLN, PYR
30% SH: BLK, WXY, PLATY, SLI CALC, COALY
W/TR BLK, VIT PLANT FIBEROUS COAL W/PYR

** MORROW SECTION 74 FT TO BASE OF SHALE**

5000-10 20% SS: CLR, VF F GR, RD F/SRTD, FRI, NON
CALC, ABDT FREE F-GRNS, TR SLI
DISCOLORATION ON CLUSTERS TR PP BRN
STAINING, SME YEL FLOR C/SLI RING CUT
60% LS: TN BUFF, GRNY F XLN, PYR
20% SH: BLK, SME COAL, PRED RED SH UPHOLE
CAVINGS

5010-20 40% SS: CLR, VF AAN TO MED CRS GR, ANG
GRDS EVENLY DOWNWARD, LAM LIGNITE,
MICRO PYR, ABDT PYR CLUSTERS, BRN
SLTY, CLAY, TR MICA, TR WH GRITTY
CLAY, ABDT FREE CLR MED CRS FLAT TO
S ANG FREE QTZ GRNS, TR PP BRN STAINING
SME SLI DISCOLORATION ON QTZ PCES, 40%
DULL YEL FLOR, GOOD 15% INTGR & PROB
FRAC POR, GOOD YEL GNR RESIDUAL RING
CUT GRADUALLY DISAPPEARING OVER 4 HR
PERIOD PROB LIGHT CONDENSATE W/GAS

5020-40 40% LS: ATOKE CAVINGS AAB
40% SH: DK GY, W/SME SFFT GRN, SEMI SMO,
BLKY, IP, SLI CALC IP, SLI MICA,
MICRO CARB INCLUS, OCC VF SLTY SNDY W/
SME SS STRINGERS
20% SS: AAB CAVINGS

***NOTE SAMPLE QUALITY FROM 5000-5200 FT. IS INCRS VERY POOR W/
UPHOLE RED SHALES, AND LS CAVINGS, VIS OF MUD 41+ ***

5040-60 30% LS: ATOKA CAVINGS, TN BUFF, GRNY F XLN,
PYR

5060-90 20% SS: PRED UP HOLE CAVINGS W/ APPROX 5%
SS LT GRN, VF GR, RD W/SRTD, FRI, SLI
CALC, VF SLTY IP, NFSOC

15-199-20190-00-00 **KCC**

EVENLY IN A SYSTEM**

5220-40

70% LS: TN/GY HD DNS CRYPTO XLN, SLR CHT
FLAKES, NFSOC LS PCES ATTEMPT TO
"FLOAT" IN 10%HCL, INDICATING
HYDROCARBON, NO VIS FLOR STN OR
CUT

5240-50

70% LS: LT BUFF, SLI TN, BRITTLE, VF SUCRS
TO S CHLKY, W/ABDT TN HD DNS CRYPTO
XLN, NO SHOW
30% SH: GYS, MED GY, SME REDS UP HOLE
CAVINGS

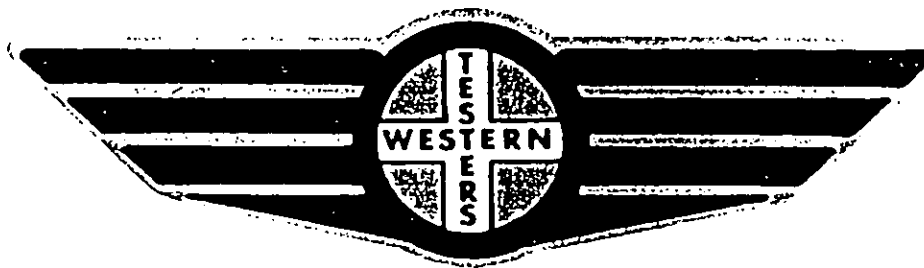
15-199-20190-00-00

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SUMMARY AND CONCLUSION
UNION PACIFIC RESOURCES CO,
#1 SCHEMM 44G-32

The #1 Schemm 44G-32 was drilled to a total depth of 5250', with the primary zones being Pennsylvania Lansing limestones and Morrow v7 sandstone. The Morrow v1 developed at 4997 to 5020, length of 20 feet with hotwire, chromatograph sample shows. The Morrow v7 did not develop, length of Morrow shale section is 74 feet, total length of the Morrow to the lower Morrow LS is 103 ft. Green shales and sandstone stringers indicate possible plugging and backfilling between 5064 to 5090. No show in any of the stringers. Rig total depth was cut from 5400' to 5250' to prevent loss of circulation in Spergen zones while drill stem testing Morrow v1. Packers set at 4997 and 5004 with base packer at 5017. Interval tested was 5004 to 5017 (13 ft.). Pipe was set on upper Morrow V1 sand.

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

15-199-20190-00-00

RECOVERED : 341 FT OF: OIL
RECOVERED : 248 FT OF: MUDDY WATER 90%MUD 10%WATER
RECOVERED : 0 FT OF: WITH SCUM OF OIL
RECOVERED : 0 FT OF: WATER CHLORIDES 9000 PPM
RECOVERED : 0 FT OF: GRAVITY OF OIL 30 AT 60 DEG

Total Barrels Fluid = 4.84
Total Fluid Prod Rate = 48.06 BFPD
Indicated Oil Rate = 27.82 BOPD
Indicated Wtr Rate = 18.20 BWPD
Corrected Oil Rate = 19.57 BOPD
Corrected Wtr Rate = 12.80 BWPD

REMARK 1 : AFE#00434
REMARK 2 :
REMARK 3 :
REMARK 4 :

SET PACKER(S) : 8.35 A.M.

TIME STARTED OFF BOTTOM : 1:30 P.M.

WELL TEMPERATURE : 141

INITIAL HYDROSTATIC PRESSURE

(A) 2367

INITIAL FLOW PERIOD MIN: 15

(B) 82 PSI TO (C) : 89

INITIAL CLOSED IN PERIOD MIN: 30

(D) 1071

FINAL FLOW PERIOD MIN: 130

(E) 90 PSI TO (F) : 194

FINAL CLOSED IN PERIOD MIN: 120

(G) 1083

FINAL HYDROSTATIC PRESSURE

(H) 2328

15-190-20190-00-00

COMPANY : UNION PACIFIC RESOURCES CO.
 WELL : 44G-32
 GAUGE # : 4376
 DATE : 15/ 4/90

FIELD : 1#SCHEMM
 JOB # : 15947
 DEPTH : 5255
 TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
49	11:51: 0	3.267	1062.000	141.00	3.000
50	11:54: 0	3.317	1065.000	141.00	3.000
51	11:57: 0	3.367	1067.000	141.00	2.000
52	12: 0: 0	3.417	1069.000	141.00	2.000
53	12: 3: 0	3.467	1071.000	141.00	2.000
54	12: 6: 0	3.517	1072.000	141.00	1.000
55	12: 9: 0	3.567	1073.000	141.00	1.000
56	12:12: 0	3.617	1073.000	141.00	0.000
57	12:15: 0	3.667	1073.000	141.00	0.000
58	12:18: 0	3.717	1074.000	141.00	1.000
59	12:21: 0	3.767	1074.000	141.00	0.000
60	12:24: 0	3.817	1075.000	141.00	1.000
61	12:27: 0	3.867	1075.000	141.00	0.000
62	12:30: 0	3.917	1076.000	141.00	1.000
63	12:33: 0	3.967	1077.000	141.00	1.000
64	12:36: 0	4.017	1079.000	141.00	2.000
65	12:39: 0	4.067	1079.000	141.00	0.000
66	12:42: 0	4.117	1079.000	141.00	0.000
67	12:45: 0	4.167	1080.000	141.00	1.000
68	12:48: 0	4.217	1080.000	141.00	0.000
69	12:51: 0	4.267	1080.000	141.00	0.000
70	12:54: 0	4.317	1080.000	141.00	0.000
71	12:57: 0	4.367	1081.000	141.00	1.000
72	13: 0: 0	4.417	1081.000	141.00	0.000
73	13: 3: 0	4.467	1081.000	141.00	0.000
74	13: 6: 0	4.517	1081.000	141.00	0.000
75	13: 9: 0	4.567	1081.000	141.00	0.000
76	13:12: 0	4.617	1082.000	141.00	1.000
77	13:15: 0	4.667	1082.000	141.00	0.000
78	13:18: 0	4.717	1082.000	141.00	0.000
79	13:21: 0	4.767	1082.000	141.00	0.000
80	13:24: 0	4.817	1082.000	141.00	0.000
81	13:27: 0	4.867	1082.000	141.00	0.000
82	13:30: 0	4.917	1083.000	141.00	1.000

WESTERN TESTING CO. INC.

15-199-20190-00-00

COMPANY : UNION PACIFIC RESOURCES CO.
 WELL : 44G-32
 GAUGE # : 4376
 DATE : 15/ 4/90

FIELD : 1#SCHEMM
 JOB # : 15947
 DEPTH : 5255
 TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
INITIAL FLOW PERIOD					
2	8:35: 0	0.000	82.000	141.00	0.000
3	8:39:59	0.083	83.000	141.00	1.000
4	8:45: 0	0.167	89.000	141.00	6.000
5	8:50: 0	0.250	89.000	141.00	0.000
INITIAL SHUT-IN PERIOD					
6	8:53: 0	0.300	591.000	141.00	502.000
7	8:56: 0	0.350	861.000	141.00	270.000
8	8:59: 0	0.400	950.000	141.00	89.000
9	9: 2: 0	0.450	594.000	141.00	-356.000
10	9: 5: 0	0.500	1021.000	141.00	427.000
11	9: 8: 0	0.550	1038.000	141.00	17.000
12	9:11: 0	0.600	1051.000	141.00	13.000
13	9:14: 0	0.650	1055.000	141.00	4.000
14	9:17: 0	0.700	1063.000	141.00	8.000
15	9:20: 0	0.750	1071.000	141.00	8.000
FINAL FLOW PERIOD					
16	9:21: 0	0.767	90.000	141.00	-981.000
17	9:24:59	0.833	92.000	141.00	2.000
18	9:30: 0	0.917	98.000	141.00	6.000
19	9:35: 0	1.000	102.000	141.00	4.000
20	9:39:59	1.083	106.000	141.00	4.000
21	9:45: 0	1.167	110.000	141.00	4.000
22	9:50: 0	1.250	112.000	141.00	2.000
23	9:54:59	1.333	118.000	141.00	6.000
24	10: 0: 0	1.417	122.000	141.00	4.000
25	10: 5: 0	1.500	124.000	141.00	2.000
26	10: 9:59	1.583	128.000	141.00	4.000
27	10:15: 0	1.667	131.000	141.00	3.000
28	10:20: 0	1.750	137.000	141.00	6.000
29	10:24:59	1.833	141.000	141.00	4.000
30	10:30: 0	1.917	144.000	141.00	3.000
31	10:35: 0	2.000	147.000	141.00	3.000
32	10:39:59	2.083	152.000	141.00	5.000
33	10:45: 0	2.167	157.000	141.00	5.000
34	10:50: 0	2.250	163.000	141.00	6.000
35	10:54:59	2.333	166.000	141.00	3.000
36	11: 0: 0	2.417	173.000	141.00	7.000
37	11: 5: 0	2.500	175.000	141.00	2.000
38	11: 9:59	2.583	179.000	141.00	4.000
39	11:15: 0	2.667	183.000	141.00	4.000
40	11:20: 0	2.750	187.000	141.00	4.000
41	11:24:59	2.833	191.000	141.00	4.000
42	11:30: 0	2.917	194.000	141.00	3.000
FINAL SHUT-IN PERIOD					
43	11:33: 0	2.967	972.000	141.00	778.000
44	11:36: 0	3.017	1021.000	141.00	49.000
45	11:39: 0	3.067	1037.000	141.00	16.000
46	11:42: 0	3.117	1047.000	141.00	10.000
47	11:45: 0	3.167	1055.000	141.00	8.000
48	11:48: 0	3.217	1059.000	141.00	4.000

15-199-20190-00-00

WESTERN TESTING CO. INC.
WICHITA-KANSAS

Pressure Transient Report

COMPANY : UNION PACIFIC RESOURCES CO.
RIG : WALLACE-KANSAS
FIELD : 1#SCHEMM
WELL : 44G-32
DATE : 4-15-90
GAUGE NO : 4376

OPERATIONAL COMMENTS

15-190-20190-00-00

GAS FLOW REPORT

Date : 4-15-90 Ticket # : 15947
Customer : UNION PACIFIC RESOURCES Lease : 1#SCHEMM
Well : 44G-32 Test : 1 Geologist : COPPER
Elevation (KB) : 3825 KB Formation : UPPER MORROW
Section : 32 Township : 14S
Range : 41W County : WALLACE State : KANSAS
Gauge SN # : 4376 Range : 4000 Clock : 12HR

TIME GAUGE (MIN)	TESTER TYPE	ORFICE SIZE	PRESSURE (PSI)	FLOW DESCRIPTION
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PRE FLOW
=====

SECOND FLOW
=====

5	MERLA	.75	2.25	114000 C.F.D.
10	MERLA	.75	2.25	114000 C.F.D.
15	MERLA	.75	2.75	127000 C.F.D.
20	MERLA	.75	3	133000 C.F.D.
25	MERLA	.75	4	156000 C.F.D.
30	MERLA	.75	4.25	161000 C.F.D.
35	MERLA	.75	4.5	166000 C.F.D.
40	MERLA	.75	5.5	185000 C.F.D.
45	MERLA	.75	6	194000 C.F.D.
60	MERLA	.75	7	211000 C.F.D.
70	MERLA	.75	8.5	219000 C.F.D.
80	MERLA	.75	8.5	236000 C.F.D.
90	MERLA	.75	9	245000 C.F.D.
110	MERLA	.75	10	259000 C.F.D.
120	MERLA	.75	11	274000 C.F.D.
125	MERLA	.75	11	274000 C.F.D.
130	MERLA	.75	11	274000 C.F.D.

Gas Bottle SN # : NONE
Date Bottle Filled : 4-16-90 AFE #00434
Date to be Invoiced : 4-16-90

15-199-20190-00-00

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE : 4-15-90
CUSTOMER : UNION PACIFIC RESOURCES CO.
WELL : 44G-32 TEST: 1
ELEVATION : 3825 K.B.
SECTION : 32
RANGE : 41W COUNTY : WALLACE
GAUGE SN# : 4376 RANGE : 4000
TICKET : 15947
LEASE : 1#SCHEMM
GEOLOGIST : COOPER
FORMATION : UPPER MORROW
TOWNSHIP : 14S
STATE : KANSAS
CLOCK : 12HR

INTERVAL FROM : 5004 TO : 5017 TOTAL DEPTH : 5255
DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 4999 SIZE : 6.75
PACKER DEPTH : 5004 SIZE : 6.75
PACKER DEPTH : 5017 SIZE : 6.75
PACKER DEPTH : SIZE :

DRILLING CON. : MURFIN RIG 25
MUD TYPE : CHEMICAL VISCOSITY : 52
WEIGHT : 9.2 WATER LOSS (CC) : 7.6
CHLORIDES (PPM) : 1700
JARS-MAKE : WTC SERIAL NUMBER : 420
DID WELL FLOW ? : GTS REVERSED OUT ? : NO

DRILL COLLAR LENGTH : 367 FT I.D. inch : 2.20
WEIGHT PIPE LENGTH : 0 FT I.D. inch : 0.00
DRILL PIPE LENGTH : 4609 FT I.D. inch : 3.80
TEST TOOL LENGTH : 28 FT TOOL SIZE : 5.50
ANCHOR LENGTH : 13 FT ANCHOR SIZE : 5.50
SURFACE CHOKE SIZE : .75 IN BOTTOM CHOKE SIZE : .75
MAIN HOLE SIZE : 7.875 IN TOOL JOINT SIZE : 4.5XH

BLOW COMMENT #1 : INITIAL FLOW PERIOD OFF BOTTOM OF BUCKET IN 30 SEC
BLOW COMMENT #2 : GAS TO SURFACE TO SMALL TO MEASURE
BLOW COMMENT #3 : FINAL FLOW PERIOD OFF BOTTOM OF BUCKET AS SOON AS
BLOW COMMENT #4 : OPENED SEE GAS FLOW SHEET