

15-063-21404-00-00

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

API NO. 15- 063-21404 ORIGINAL

County Gove
C SW NW Sec. 19 Twp. 11 Rge. 31 X W

Operator: License # 6931

3300 Feet from S/W (circle one) Line of Section

Name: Bowman Oil Company

4950 Feet from E/W (circle one) Line of Section

Address: Box 17

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

Codell, Kansas 67630

Lease Name Keller Well # 1

City/State/Zip _____

Field Name X

Purchaser: Farmland

Producing Formation Marmaton

Operator Contact Person: Paul Bowman

Elevation: Ground 2950 KB _____

Phone (913) 634-2304

Total Depth 4610 PBT 4610

Contractor: Name: Emphasis Drilling

Amount of Surface Pipe Set and Cemented at 257 Feet

License: 8241

Multiple Stage Cementing Collar Used? X Yes _____ No _____

Wellsite Geologist: Mike Davignon

If yes, show depth set 2450 Feet

Designate Type of Completion

If Alternate II completion, cement circulated from Surface

X New Well _____ Re-Entry _____ Workover _____

feet depth to 2450 w/ 350 sx cmt.

X Oil _____ SWD _____ SLOW _____ Temp. Abd. _____

_____ Gas _____ ENHR _____ SIGW _____

_____ Dry _____ Other (Core, WSW, Expl., Cathodic, etc) _____

Drilling Fluid Management Plan 5-4-91
(Data must be collected from the Reserve Pit)

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

Chloride content 4500 ppm Fluid volume 650 bbls

Operator: _____

Dewatering method used let evaporate & backfill

Well Name: _____

Location of fluid disposal if hauled offsite: _____

Comp. Date _____ Old Total Depth _____

Operator Name _____

_____ Deepening _____ Re-perf. _____ Conv. to Inj/SWD _____

_____ Plug Back _____ PBT _____

_____ Commingled _____ Docket No. _____

_____ Dual Completion _____ Docket No. _____

_____ Other (SWD or Inj?) _____ Docket No. _____

Lease Name _____ License No. _____

Quarter _____ Sec. _____ Twp. _____ S Rng. _____ E/W _____

8/27/91 9/16/91 11/5/91

Spud Date Date Reached TD Completion Date

County _____ Docket No. _____

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

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

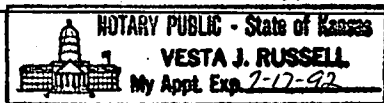
Signature Louis J. Bowman

Title Partner Date 5/15/92

Subscribed and sworn to before me this 15th day of May 19 92.

Notary Public Vesta J. Russell

Date Commission Expires 7-17-92



K.C.C. OFFICE USE ONLY
F _____ Letter of Confidentiality Attached
C _____ Wireline Log Received
C _____ Geologist Report Received
RECEIVED
STATE CORPORATION COMMISSION
Distribution
KCC _____ SWD/NGPA _____
KGS _____ Plug _____ 18 1992 Other _____
3-18-1992 (Specify)
CONSERVATION DIVISION
Wichita, Kansas

Operator Name Bowman Oil Company Lease Name Keller Well # 1

Sec. 19 Twp. 11 Rge. 31 East West
 County Gove

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 checked="" type="checkbox"/> Log (Formation (Top), Depth and Datum) Sample Name Top Datum Heebner 3834 Ter 3963 Lans 3976 B-KC 4257 Marm 4287 Pawn 4376 Ft Scott 4420 Cher 4468 Miss 4563
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:		

Great Guns Dual Compensated porosity log

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	20	257	Common	190	
Production	7 7/8	4 1/2	9.5	4610	Common	190	

ADDITIONAL CEMENTING/SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input checked="" type="checkbox"/> Perforate				
<input checked="" type="checkbox"/> Protect Casing	0-2450	Halfslight	250	85# floccule, 2% gal
<input type="checkbox"/> Plug Back TD		Pozmix	35	
<input type="checkbox"/> Plug Off Zone		Standard	65	

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type	Acid, Fracture, Shot, Cement Squeeze Record
	Specify Footage of Each Interval Perforated	(Amount and Kind of Material Used) Depth
4	4287-4292	3000 gal 15% HCl

TUBING RECORD	Size <u>2 3/8"</u>	Set At <u>3590</u>	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Inj.	Producing Method <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)			
11/5/91				
Estimated Production Per 24 Hours	Oil <u>1 1/4</u> Bbls.	Gas <u>5bbl</u> 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 Perf. Dually Comp. Commingled Other (Specify)

Production Interval _____

15-063-21404-00-00

TICKET NO. 170586-9

PAGE 1 OF _____ PAGES

HALLIBURTON SERVICES
Duncan, Oklahoma 73538
A Division of Halliburton Company

ORIGINAL

3226-18.8

FORM 1908 R-11

WELL NO. - FARM OR LEASE NAME <u>1 Keller</u>		COUNTY <u>Logansport</u>	STATE <u>KS</u>	CITY / OFFSHORE LOCATION	DATE <u>11-27-91</u>
CHARGE TO <u>Bowman Oil Co.</u>		OWNER <u>Same</u>	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 <u>P.O. Box 42</u>		CONTRACTOR <u>CO TOOLS</u>	1 LOCATION <u>Hays, KS</u>		CODE <u>25525</u>
CITY, STATE, ZIP <u>Codell, KS 67630</u>		SHIPPED VIA <u>CO 11K</u>	2 LOCATION		CODE
WELL TYPE <u>01</u>	WELL CATEGORY <u>02</u>	WELL PERMIT NO. <u>B-942073</u>	3 LOCATION		CODE
TYPE AND PURPOSE OF JOB <u>591</u>		DELIVERED TO <u>LDC S. Oakley</u>	ORDER NO.		REFERRAL LOCATION

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

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

PRICE REFERENCE	SECONDARY REF OR PART NO.	L O C.	ACCOUNT	DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT
					QTY	MEAS	QTY	MEAS		
000-117		1		MILEAGE #51143	5	mi			260	13 00
009-019		1		Pump chg	2450	ST				1090 00

RECEIVED
KANSAS CORPORATION COMMISSION
7-2-1992
JUL 2 1992
CONSERVATION DIVISION
WICHITA, KS

AS PER ATTACHED BULK MATERIAL DELIVERY TICKET NO. B-942073 3205 63

WAS JOB SATISFACTORILY COMPLETED?
 WAS OPERATION OF EQUIPMENT SATISFACTORY?
 WAS PERFORMANCE OF PERSONNEL SATISFACTORY?
 Ron Pooley
 CUSTOMER OR HIS AGENT (PLEASE PRINT)
 Ron Pooley
 CUSTOMER OR HIS AGENT (SIGNATURE)

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

SUB TOTAL 4308 63
 APPLICABLE TAXES WILL BE ADDED ON INVOICE.

FIELD OFFICE



HALLIBURTON SERVICES
Dallas, Oklahoma 75220

A Division of Halliburton Company

BULK MATERIALS DELIVERY 15-063-21404-00-00

AND

TICKET CONTINUATION

ORIGINAL

FOR INVOICE AND
TICKET NO. 17,526

DATE 11-27-91	CUSTOMER ORDER NO.	WELL NO. AND FARM Keller #1	COUNTY Gove	STATE Kansas
CHARGE TO Bowman Oil Co.	OWNER Same	CONTRACTOR No. B942073		
MAILING ADDRESS	DELIVERED FROM Hays, Ks	LOCATION CODE 25525	PREPARED BY Kuhn	
CITY & STATE	DELIVERED TO S Oakley, Ks	TRUCK NO. 9539	RECEIVED BY K. P. ...	

PRICE REFERENCE	SECONDARY REF. OR PART NO.	CODE	DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT	
				QTY.	MEAS.	QTY.	MEAS.			
504-316		1B	Halliburton Light Cement	250	HHH			6.28	1,570	00
<i>524 328 516.00261</i>			<i>163 Reg P...</i>							
<i>526 125 516.00286</i>			<i>88 Pozmix 'A'</i>							
<i>526 121 516.00259</i>			<i>13 Halliburton Gel</i>							
			100Cu. FT. Pozmix Cement 10% Gel							
504-308	516.00261	1B	Standard Cement	65				6.75	438	75
506-105	516.00286	1B	Pozmix 'A'	35				3.90	136	50
506-121	516.00259	1B	2sk Halliburton Gel @ 2%							n/c
507-277	516.00259	1B	Halliburton Gel @ 8%	7				14.75	103	25
507-285	70.15250	1B	Econolite Blended	200	1b			.90	180	00
507-210	890.50071	1B	Flocala Blended	88	1b			1.30	114	40
509-554	890.50051	1B	Halliburton Gel on side	10				14.75	147	50
510-222	516.00051	1B	Sand 20/40 Brady on side	2				8.60	17	20

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7-2-1992
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CONSERVATION DIVISION
WICHITA, KS

		Returned Mileage Charge	TOTAL WEIGHT	LOADED MILES	TON MILES		
		SERVICE CHARGE ON MATERIALS RETURNED			CU. FEET		
500-207		1B SERVICE CHARGE			389	1.15	447 35
500-306		2B Mileage Charge	33,938 TOTAL WEIGHT	5 LOADED MILES	84.845 TON MILES	.80	67 88
No. B 942073					CARRY FORWARD TO INVOICE	SUB-TOTAL	3,222 83

FORM 1911-R6 REV. 8-85

DIVISION OFFICE

15-063-21404-00-00

DISTRICT Hoys, Ks

DATE 11-27-91

TO: HALLIBURTON SERVICES YOU ARE HEREBY REQUESTED TO FURNISH EQUIPMENT AND SERVICEMEN TO DELIVER AND OPERATE

THE SAME AS AN INDEPENDENT CONTRACTOR TO: Bowman Oil Co (CUSTOMER)
AND DELIVER AND SELL PRODUCTS, SUPPLIES, AND MATERIALS FOR THE PURPOSE OF SERVICING

WELL NO. 1 LEASE Keller SEC. 19 TWP. 115 RANGE 314

FIELD _____ COUNTY Logan STATE Ks OWNED BY _____

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT

FORMATION NAME _____ TYPE _____

FORMATION THICKNESS _____ FROM _____ TO _____

PACKER: TYPE _____ SET AT _____

TOTAL DEPTH Point collar 2465' MUD WEIGHT _____

BORE HOLE _____

INITIAL PROD: OIL _____ BPD, H₂O _____ BPD, GAS _____ MCF _____

PRESENT PROD: OIL _____ BPD, H₂O _____ BPD, GAS _____ MCF _____

	NEW USED	WEIGHT	SIZE	FROM	TO	MAX. ALLOW. P.S.I.
CASING	<u>U</u>	<u>9.5</u>	<u>4 1/2</u>	<u>66</u>	<u>4650</u>	
LINER						
TUBING	<u>U</u>		<u>2 3/8</u>	<u>66</u>	<u>2460</u>	
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

PREVIOUS TREATMENT: DATE _____ TYPE _____ MATERIALS _____

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

cut part collar @ 2465' To surf w/ 100 SKS Ecanalite & 250 SKS NLC
Run 10 SKS gal 250 SKS NLC & 100 SKS Ecanalite @ per Marion Schmidt
(state plugger)

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

As consideration, the above-named Customer agrees: THIS CONTRACT MUST BE SIGNED BEFORE WORK IS COMMENCED

- a) To pay Halliburton in accord with the rates and terms stated in Halliburton's current price list. Invoices are payable NET by the 20th of the following month after date of invoice. Upon Customer's default in payment of Customer's account by the last day of the month following the month in which the invoice is dated, Customer agrees to pay interest thereon after default at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event it becomes necessary to employ attorneys to enforce collection of said account, Customer agrees to pay all collection costs and attorney fees in the amount of 20% of the amount of the unpaid account.
- b) To defend, indemnify, release and hold harmless Halliburton, its divisions, subsidiaries, parent and affiliated companies and the officers, directors, employees, agents and servants of all of them from and against any claims, liability, expenses, attorneys fees, and costs of defense to the extent permitted by law for:
 - 1. Damage to property owned by, in the possession of, or leased by Customer, and/or the well owner (if different from Customer), including, but not limited to, surface and subsurface damage. The term "well owner" shall include working and royalty interest owners.
 - 2. Reservoir, formation, or well loss or damage, subsurface trespass or any action in the nature thereof.
 - 3. Personal injury or death or property damage (including, but not limited to, damage to the reservoir, formation or well), or any damages whatsoever, growing out of or in any way connected with or resulting from pollution, subsurface pressure, losing control of the well and/or a well blowout or the use of radioactive material.

The defense, indemnity, release and hold harmless obligations of Customer provided for in this Section b) and Section c) below shall apply to claims or liability even if caused or contributed to by Halliburton's negligence, strict liability, or the 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.
- c) That because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, Halliburton is unable to guarantee the effectiveness of the products, supplies or materials, nor the results of any treatment or service, nor the accuracy of any chart interpretation, research analysis, job recommendation or other data furnished by Halliburton. Halliburton personnel will use their best efforts in gathering such information and their best judgment in interpreting it, but Customer agrees that Halliburton shall not be liable for and Customer shall indemnify Halliburton against any damages arising from the use of such information.
- d) That Halliburton warrants only title to the products, supplies and materials and that the same are free from defects in workmanship and materials. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Halliburton's liability and Customer's exclusive remedy in any cause of action (whether in contract, tort, breach of warranty or otherwise) arising out of the sale or use of any products, supplies or materials is expressly limited to the replacement of such products, supplies or materials on their return to Halliburton or, at Halliburton's option, to the allowance to the Customer of credit for the cost of such items. In no event shall Halliburton be liable for special, incidental, indirect, punitive or consequential damages.
- e) That Customer shall, at its risk and expense, attempt to recover any Halliburton equipment, tools or instruments which are lost in the well and if such equipment, tools or instruments are not recovered, Customer shall pay Halliburton its replacement cost unless such loss is due to the sole negligence of Halliburton. If Halliburton equipment, tools or instruments are damaged in the well, Customer shall pay Halliburton the lesser of its replacement cost or the cost of repairs unless such damage is caused by the sole negligence of Halliburton. In the case of equipment, tools or instruments for marine operations, Customer shall, in addition to the foregoing, be fully responsible for loss of or damage to any of Halliburton's equipment, tools or instruments which occurs at any time after delivery to Customer at the landing until returned to the landing, unless such loss or damage is caused by the sole negligence of Halliburton.
- f) To waive the provisions of the Deceptive Trade Practices - Consumer Protection Act, to the extent permitted by law.
- g) That this contract shall be governed by the law of the state where services are performed or materials are furnished.
- h) That Halliburton shall not be bound by any changes or modifications in this contract, except where such change or modifications are made in writing by a duly authorized executive officer of Halliburton.

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

SIGNED Ken Looney CUSTOMER

DATE 11-27-91

TIME 1028 (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

WELL DATA

FIELD _____ SEC 19 TWP 11S RING 31W COUNTY Logan STATE KS

FORMATION NAME	TYPE	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING							
LINER							
TUBING							
OPEN HOLE							SHOTS/FT.
PERFORATIONS							
PERFORATIONS							
PERFORATIONS							

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 _____

JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>11-27-90</u>	DATE <u>11-27-91</u>	DATE <u>11-27-91</u>	DATE <u>11-27-91</u>
TIME <u>0600</u>	TIME <u>0950</u>	TIME <u>1201</u>	TIME <u>1530</u>

TOOLS AND ACCESSORIES

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

MATERIALS

TREAT. FLUID _____ DENSITY _____ LB/GAL-API

DISPL. FLUID _____ DENSITY _____ LB/GAL-API

PROP. TYPE _____ SIZE _____ LB.

PROP. TYPE _____ SIZE _____ LB.

ACID TYPE _____ GAL. _____ %

ACID TYPE _____ GAL. _____ %

ACID TYPE _____ GAL. _____ %

SURFACTANT TYPE _____ GAL. _____ IN

NE AGENT TYPE _____ GAL. _____ IN

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

GELLING AGENT TYPE _____ GAL-LB. _____ IN

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

BREAKER TYPE _____ GAL-LB. _____ IN

BLOCKING AGENT TYPE _____ GAL-LB. _____

PERFPAC BALLS TYPE _____ QTY. _____

OTHER 10 SKS got ahead of cmt

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>K. Ruchmeier</u>	<u>51143</u>	
<u>B. Maughmer</u>	<u>cmt pump</u>	<u>Hays, KS</u>
<u>D. Ash</u>	<u>0530</u>	
<u>M. Chidias</u>	<u>5152 cmt</u>	<u>BULK</u>

RECEIVED
 KANSAS CORPORATION COMMISSION
 JUL 2 1992
 7-2-1992
 CONSERVATION DIVISION
 WICHITA, KS

DEPARTMENT cmt

DESCRIPTION OF JOB
Bring cmt to surf from port collar @ 2450.

JOB DONE THRU: TUBING CASING ANNULUS TBG/ANN:

CUSTOMER REPRESENTATIVE X Roy Poolley

HALLIBURTON OPERATOR K. Ruchmeier

COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT/SK.	MIXED LBS/GAL.
<u>2</u>	<u>100</u>	<u>SCAND</u>		<u>B</u>	<u>1/2 Sack 1sk</u>	<u>3.02</u>	<u>10.8</u>
<u>1</u>	<u>250</u>	<u>NLC</u>		<u>B</u>	<u>1/2 Sack 1sk</u>	<u>1.84</u>	<u>12.7</u>

PRESSURES IN PSI

SUMMARY

VOLUMES

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

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

AVERAGE _____ FRACTURE GRADIENT _____ TREATMENT BBL-GAL. 1066 gal DISPL: BBL-GAL. 9.5

SHUT-IN: INSTANT _____ 5-MIN. _____ 15-MIN. _____ CEMENT SLURRY: BBL-GAL. 135

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

TREATING _____ DISPL _____ OVERALL _____ REMARKS Thank you

FEET _____ REASON _____

CUSTOMER Burman Oil Co.
 LEASE Keller
 WELL NO. 1
 JOB TYPE port collar to surf DATE 11-27-91

JOB LOG

15-063-21404-00-00

FORM 2013 R-2

WELL NO. 1 LEASE Keller TICKET NO. 170586
 CUSTOMER Bowman Oil Co. PAGE NO. 1
 JOB TYPE cmr port collar DATE 11-27-91

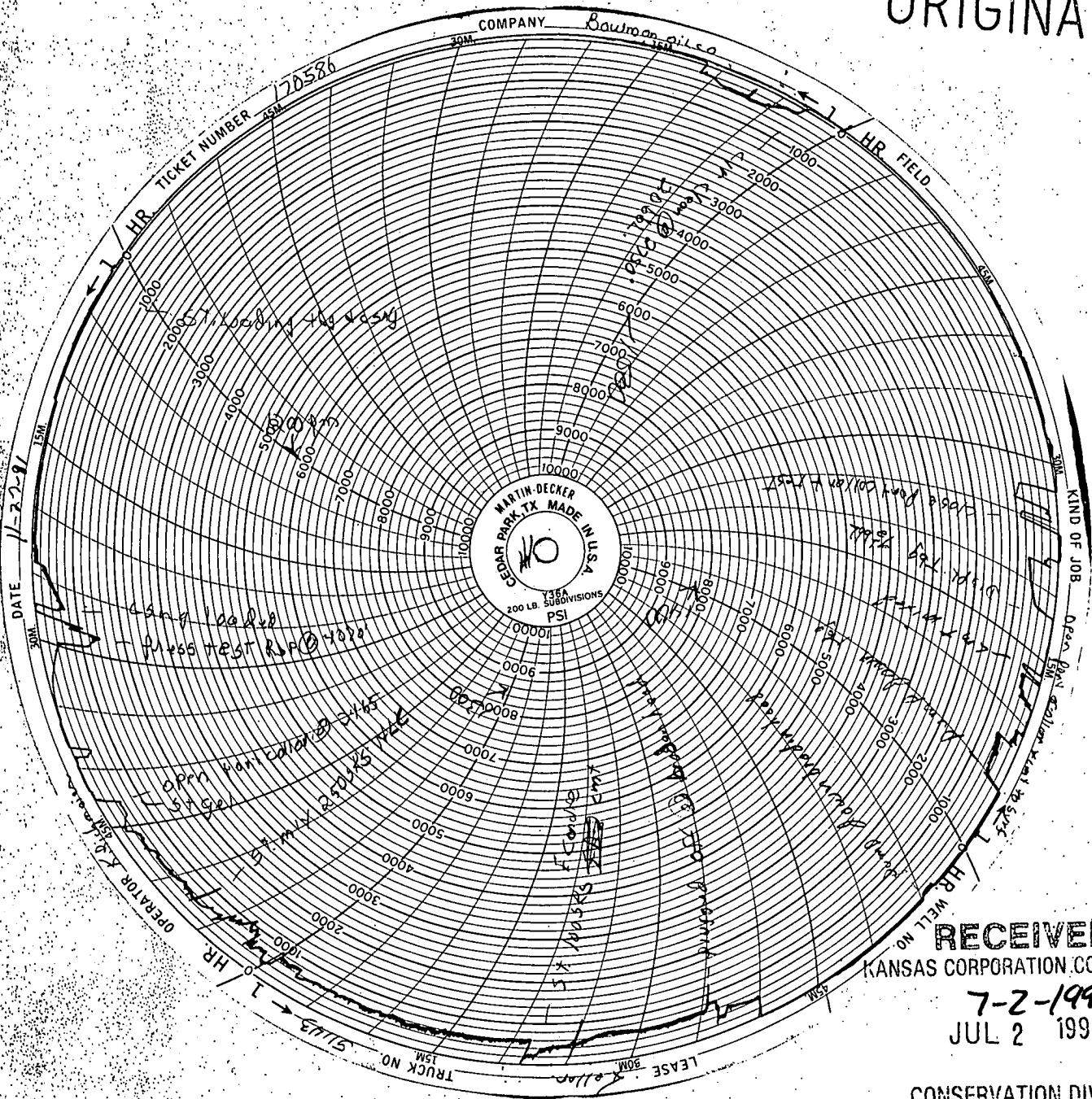
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0600							Called out ORIGINAL
	0950							on loc, running wire line plug plug @ 4080' -
	1045							ST. 7 bgt port collar opening Tool.
	1201							Hook up to thg lead hole
	1226		55			650		Hole loaded
	1228					1500	1300	Shut in + press test (OK)
	1243		10			600		open port collar ST. 10SKS gel, had cir after pumping 8 bbl
	1255							
	1255		135			650		ST. cmr 250 SKS HLC. + 1/2 # facebit 100 SKS Econalite 1/2 # facebit
								Had cir for the 1st 200SKS then quit + started test w/ 100SKS last mix.
	1335					800		Had about 20SKS left + braden head plugged off
	1340							100 stop knock house hook up to braden head + pump 2 bbl.
	1405					500		Hook back up to thg + can't mix cmr
	1410					650		cmr mixed braden head plugged off again Had Econ cmr in collar
	1412		9.5			650		Displ + bgt 9.3 bbl.
	1417							close port collar + press test (OK)
	1435						300	Run in just to 2750 cir clean short way w/ 20 bbl water
	1458							Wash + rack up equipment
	1520							Job complete Thank you Ken

K. Richman #59734
 B. Maughmer #E2361
 D. Ash #F11009
 M. Childers #B7383

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CONSERVATION DIVISION
WICHITA, KS

RECEIVED
KANSAS CORPORATION COMMISSION

CC

MR. DAVENON
W. KS

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

ORIGINAL

15-063-21404-00-00

Drill-Stem Test Data

Well Name KELLER #1 Test No. 1 Date 9/1/91
 Company N-B COMPANY INC Zone Tested 160'
 Address P.O. BOX 506 RUSSELL KANSAS 67665 Elevation 2955 KB
 Co. Rep./Geo. MIKE DAVIGNON Cont. EMPHASIS #7 Est. Ft. of Pay _____
 Location: Sec. 19 Twp. 11S Rge. 31W Co. GOVE State KS

Interval Tested 4070-4155
 Anchor Length 85
 Top Packer Depth 4065
 Bottom Packer Depth 4070
 Total Depth 4155

Drill Pipe Size 4.5 XH
 Wt. Pipe I.D. - 2.7 Ft. Run _____
 Drill Collar - 2.25 Ft. Run _____

Mud Wt. 9 lb / gal. Viscosity 46 Filtrate 8.8

Tool Open @ 4:48 PM Initial Blow GOOD BLOW - OFF BOTTOM IN 1 MINUTE 45 SECONDS
 Final Blow OFF BOTTOM IN 3 MINUTES

Recovery - Total Feet 1935 Flush Tool? NO

Rec. 1935 Feet of WATER

Rec. _____ Feet of _____

Rec. _____ Feet of _____

Rec. _____ Feet of _____

Rec. _____ Feet of _____
 BHT 124 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW 0.08 @ 93 °F Chlorides 70000 ppm Recovery Chlorides 1500 ppm System

(A) Initial Hydrostatic Mud 1955.6 PSI Ak1 Recorder No. 13308 Range 4700

(B) First Initial Flow Pressure 102.3 PSI @ (depth) 4095 w/Clock No. 8376

(C) First Final Flow Pressure 550.7 PSI Ak1 Recorder No. 2023 Range 4000

(D) Initial Shut-In Pressure 1123.6 PSI @ (depth) 4090 w/Clock No. 27573

(E) Second Initial Flow Pressure 594.8 PSI Ak1 Recorder No. _____

(F) Second Final Flow Pressure 844.5 PSI @ (depth) _____ w/Clock No. _____

(G) Final Shut-In Pressure 1123.6 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 1910.4 PSI Initial Shut-In 30 Final Shut-In 30

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 Wt. Initial Shut-In _____

Our Representative MARK HERSKOWITZ

TOTAL PRICE \$ 585

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

ORIGINAL

15-063-21404-00-00 Drill-Stem Test Data

Well Name KELLER #1 Test No. 2 Date 9/12/91
Company N-B COMPANY INC Zone Tested LKC
Address P.O. BOX 506 RUSSELL KANSAS 67665 Elevation 2955 KB
Co. Rep./Geo. MIKE DAVIGNON Cont. EMPHASIS #7 Est. Ft. of Pay _____
Location: Sec. 19 Twp. 11S Rge. 31W Co. GOVE State KS

Interval Tested 4166-4186 Drill Pipe Size 4.5 XH
Anchor Length 20 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 4161 Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth 4166
Total Depth 4186

Mud Wt. 9 lb / gal. Viscosity 43 Filtrate 8.8

Tool Open @ 6:33 AM Initial Blow WEAK SURFACE BLOW TO 1" IN 30 MINUTES
Final Blow SURFACE BLOW IN 4 MINUTES-DIED-PLUSHED TOOL
BLOW IN 15 SECONDS

Recovery - Total Feet 20 Flush Tool? YES

Rec. 20 Feet of OIL STAINED MUD-1/4% OIL/99 3/4% MUD

Rec. _____ Feet of _____

Rec. _____ Feet of _____

Rec. _____ Feet of _____

Rec. 118 Feet of _____
BMT _____ °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 1500 ppm System

(A) Initial Hydrostatic Mud 1999.1 PSI AK1 Recorder No. 13308 Range 4700

(B) First Initial Flow Pressure 12.3 PSI @ (depth) _____ w/Clock No. 27573

(C) First Final Flow Pressure 12.3 PSI AK1 Recorder No. 2023 Range 4000

(D) Initial Shut-In Pressure 844.7 PSI @ (depth) _____ w/Clock No. 8376

(E) Second Initial Flow Pressure 12.3 PSI AK1 Recorder No. _____ Range _____

(F) Second Final Flow Pressure 12.3 PSI @ (depth) _____ w/Clock No. _____

(G) Final Shut-In Pressure _____ PSI Initial Opening 30 Final Flow 15

(H) Final Hydrostatic Mud 1977.6 PSI Initial Shut-In 30 Final Shut-In _____

Our Representative MARK HERSKOWITZ TOTAL PRICE \$ 550

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Lincoln, Kansas

TRILOBITE TESTING COMPANY

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ORIGINAL

15-063-21404-00-00
Drill-Stem Test Data

Name KELLER #1 Test No. 3 Date 9/12/91
Company N-B COMPANY INC Zone Tested LKC
Address P.O. BOX 506 RUSSELL KANSAS 67665 Elevation 2955 KB
Rep./Geo. MIKE DAVIGNON Cont. EMPHASIS #7 Est. Ft. of Pay _____
Location: Sec. 19 Twp. 11S Rge. 31W Co. GOVE State KS

Interval Tested 4190-4265 Drill Pipe Size 4.5 XH
Interval Length 75 Wt. Pipe I.D. - 2.7 Ft. Run _____
Packer Depth 4185 Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth 4190
Packer Seal Depth 4265

Fluid Wt. 9.1 lb / gal. Viscosity 43 Filtrate 8.5

Time to Open @ 9:07 PM Initial Blow WEAK SURFACE BLOW TO 1 1/4" IN 30 MINUTES

Final Blow WEAK SURFACE BLOW TO 3 1/4" IN 9.0 MINUTES
REPAIRED DRAW WORKS - 36 MINUTES

Recovery - Total Feet 40 Flush Tool? NO

80 Feet of GAS IN PIPE

Feet of _____

40 Feet of GSY OIL CUT MUD-1%GAS/15%OIL/84% MUD

Feet of _____

Feet of 120

°F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

@ _____ °F Chlorides _____ ppm Recovery Chlorides 6500 ppm System

Initial Hydrostatic Mud 2060.3 PSI Ak1 Recorder No. 13308 Range 4700

First Initial Flow Pressure 40.6 PSI @ (depth) _____ W/Clock No. 27573

First Final Flow Pressure 40.6 PSI Ak1 Recorder No. 2023 Range 4000

Initial Shut-In Pressure 1025.7 PSI @ (depth) _____ W/Clock No. 8376

Second Initial Flow Pressure 51.7 PSI Ak1 Recorder No. _____

Second Final Flow Pressure 51.7 PSI @ (depth) _____ W/Clock No. _____

Final Shut-In Pressure 902.3 PSI Initial Opening 30 Final Flow _____

Final Hydrostatic Mud 2033.4 PSI Initial Shut-In 30 Final Shut-In _____

Representative MARK HERSKOWITZ TOTAL PRICE \$ 550

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ORIGINAL

Drill-Stem Test Data

Well Name KELLER #1 Test No. 4 Date 9/13/91
Company N-B COMPANY INC
Address P.O. BOX 506 RUSSELL KANSAS 67665 Zone Tested MARKATON
Co. Rep./Geo. MIKE DAVIGNON Cont. EMPHASIS #7 Elevation 2955 KB
Location: Sec. 19 Twp. IIS Rge. 31W Co. GOVE Est. Ft. of Pay 4 State KS

Interval Tested 4264-4343 Drill Pipe Size 4.5 XH
Anchor Length 79 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 4259 Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth 4264
Total Depth 4343

Mud Wt. 9.2 lb / gal. Viscosity 45 Filtrate 10.4

Tool Open @ 4:12 PM Initial Blow STRONG BLOW-OFF BOTTOM OF BUCKET IN 6 MIN-BLED THROUGH 2" / ISI : WEAK SURFACE BLOW-STEADY THROUGHOUT
Final Blow STRONG BLOW-OFF BOTTOM OF BUCKET IN 5 MIN-BLED THROUGH 2" / FSI: WEAK BLOW BUILT TO 3" IN 30 MIN

Recovery - Total Feet 270 Flush Tool? NO

Sec. 1500 Feet of GAS IN PIPE

Sec. _____ Feet of _____

Sec. 90 Feet of CLEAN GASSY OIL-10%GAS/90%OIL

Sec. 180 Feet of MUDDY OIL-10%GAS/80%OIL/10%MUD

Sec. _____ Feet of _____
DIT 121 °F Gravity 40 °API @ 78 °F Corrected Gravity 39 °API

GW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 4000 ppm System

(A) Initial Hydrostatic Mud 2168 PSI AK1 Recorder No. 13308 Range 4700

(B) First Initial Flow Pressure 73.6 PSI @ (depth) 4268 w/Clock No. 27573

(C) First Final Flow Pressure 122.2 PSI AK1 Recorder No. 2023 Range 4000

(D) Initial Shut-in Pressure 1148.9 PSI @ (depth) 4340 w/Clock No. 8376

(E) Second Initial Flow Pressure 137.1 PSI AK1 Recorder No. _____ Range _____

(F) Second Final Flow Pressure 173.2 PSI @ (depth) _____ w/Clock No. _____

(G) Final Shut-in Pressure 1034.7 PSI Initial Opening 30 Final Flow _____

(H) Final Hydrostatic Mud 2133.7 PSI Initial Shut-in 30 Final Shut-in _____

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Our Representative LEWAYNE TRESNER

TOTAL PRICE \$ 550

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

ORIGINAL

Drill-Stem Test Data

Well Name KELLER #1 Test No. 5 Date 9/14/91
 Company N-B COMPANY INC Zone Tested PAWNEE
 Address P.O. BOX 506 RUSSELL KANSAS 67665 Elevation 2955 KB
 Rep./Geo. MIKE DAVIGNON Cont. EMPHASIS #7
 Location: Sec. 19 Twp. 11S Rge. 31W Co. GOVE Est. Ft. of Pay _____ State KS

Interval Tested 4367-4390
 Anchor Length 23
 Top Packer Depth 4362
 Bottom Packer Depth 4367
 Total Depth 4390

Drill Pipe Size 4.5 XH
 Wt. Pipe I.D. - 2.7 Ft. Run _____
 Drill Collar - 2.25 Ft. Run _____

Fluid Wt. 9.2 lb / gal. Viscosity 45 Filtrate 10.4

Well Open @ 6:38 Initial Blow STRONG BLOW-OFF BOTTOM OF BUCKET (23 MINUTES)
PSI: BLED THROUGH 2" - NO BLOW BACK ON SHUT IN
 Final Blow STRONG BLOW - BUILT TO 9" (30 MINUTES)
PSI: BLED THROUGH 2" - NO BLOW BACK ON SHUT IN

Recovery - Total Feet 850 Flush Tool? NO

850 Feet of SALT WATER

_____ Feet of _____

_____ Feet of _____

_____ Feet of _____

_____ Feet of _____

123 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

0.11 @ 70 °F Chlorides 70000 ppm Recovery Chlorides 4000 ppm System

Initial Hydrostatic Mud 2278.9 PSI AK1 Recorder No. 13308 Range 4700

First Initial Flow Pressure 40.6 PSI @ (depth) 4371 w/Clock No. 27573

First Final Flow Pressure 102.5 PSI AK1 Recorder No. 2023 Range 4000

Initial Shut-In Pressure 1124.6 PSI @ (depth) 4387 w/Clock No. 8376

Second Initial Flow Pressure 126.3 PSI AK1 Recorder No. _____ Range _____

Second Final Flow Pressure 180.9 PSI @ (depth) _____ w/Clock No. 3-9-1992

Final Shut-In Pressure 986.3 PSI Initial Opening 30 Final Flow 30

Final Hydrostatic Mud 2244.7 PSI Initial Shut-In 30 Final Shut-In 30

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

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Drill-Stem Test Data

ORIGINAL

Well Name KELLER #1 Test No. 6 Date 9/14/91
Company N-B COMPANY INC Zone Tested PAWNEE
Address P.O. BOX 506 RUSSELL KANSAS 67665 Elevation 2955 KB
Co. Rep./Geo. MIKE DAVIGNON Cont. EMPHASIS #7 Est. Ft. of Pay _____
Location: Sec. 19 Twp. 11S Rge. 31W Co. GOVE State KS

Interval Tested 4408-4438 Drill Pipe Size 4.5 XH
Anchor Length 30 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 4403 Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth 4408
Total Depth 4438

Mud Wt. 9.2 lb / gal. Viscosity 51 Filtrate 10.8

Tool Open @ 7:38 PM Initial Blow TOOL OPEN-NO SURGE-FLUSHED TOOL-NO SURGE

Final Blow _____

Recovery — Total Feet 5 Flush Tool? YES

Rec. 5 Feet of EXTREMELY THICK MUD

Rec. _____ Feet of _____

Rec. _____ Feet of _____

Rec. _____ Feet of _____

Rec. _____ Feet of _____
°F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

BHT N/A @ _____ °F Chlorides _____ ppm Recovery Chlorides 6500 ppm System

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 6500 ppm System
(A) Initial Hydrostatic Mud 2278.9 PSI Ak1 Recorder No. 13308 Range 4700

(B) First Initial Flow Pressure 40.6 PSI @ (depth) 4412 w/Clock No. 27573

(C) First Final Flow Pressure 51.7 PSI AK1 Recorder No. 2023 Range 4000

(D) Initial Shut-In Pressure _____ PSI @ (depth) 4435 w/Clock No. 8376

(E) Second Initial Flow Pressure _____ PSI AK1 Recorder No. _____ Range _____

(F) Second Final Flow Pressure _____ PSI @ (depth) _____ w/Clock No. _____

(G) Final Shut-In Pressure _____ PSI Initial Opening _____ Final Flow _____

(H) Final Hydrostatic Mud 2218.4 PSI Initial Shut-In _____ Final Shut-In _____

Our Representative LEWAYNE TRESNER

TOTAL PRICE \$ _____

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15-063-21404-00-00

Drill-Stem Test Data

ORIGINAL

Well Name KELLER #1 Test No. _____ Date 9/15/91
Company N-B COMPANY INC Zone Tested CHEROKEE
Address P.O. BOX 506 RUSSELL KANSAS 67665 Elevation 2955 KB
Co. Rep./Geo. MIKE DAVIGNON Cont. EMPHASIS #7 Est. Ft. of Pay _____
Location: Sec. 19 Twp. 11S Rge. 31W Co. GOVE State KS

Interval Tested 4495-4550 Drill Pipe Size 4.5 XH
Anchor Length 55 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 4490 Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth 4495
Total Depth 4550

Mud Wt. 9.3 lb / gal. Viscosity 45 Filtrate 8.8

Tool Open @ 4:02 PM Initial Blow WEAK BLOW BUILT TO 1 1/2" (30 MINO
ISI: BLED THROUGH 2"-NO BLOW BACK ON SHUT IN
Final Blow WEAK SURFACE BLOW-STAYED STEADY THROUGHOUT OPENING (30 M
PSI: BLED THROUGH 2"-NO BLOW BACK ON SHUT IN

Recovery — Total Feet 20 Flush Tool? NO

Rec. 20 Feet of OIL STAINED MUD

Rec. _____ Feet of _____

Rec. _____ Feet of _____

Rec. _____ Feet of _____

Rec. _____ Feet of _____

BHT 124 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RV _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 3800 ppm System

(A) Initial Hydrostatic Mud 2322.6 PSI AK1 Recorder No. 13308 Range 4700

(B) First Initial Flow Pressure 51.7 PSI @ (depth) _____ 4500 w/Clock No. 27573

(C) First Final Flow Pressure 51.7 PSI AK1 Recorder No. 2023 Range 4000

(D) Initial Shut-In Pressure 315.6 PSI @ (depth) _____ 4547 w/Clock No. 8376

(E) Second Initial Flow Pressure 63.5 PSI AK1 Recorder No. _____

(F) Second Final Flow Pressure 63.5 PSI @ (depth) _____ w/Clock No. _____

(G) Final Shut-In Pressure 322.4 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 2274.9 PSI Initial Shut-In 30 Final Shut-In 30

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Our Representative LEWAYNE TRESNER TOTAL PRICE \$ 550

15-063-21404-00-00
TRILOBITE TESTING COMPANY
 P.O. Box 362 • Hays, Kansas 67601

ORIGINAL

Drill-Stem Test Data

Well Name KELLER #1 Test No. 8 Date 9/16/91
 Company N-B COMPANY INC Zone Tested MARMATON
 Address P.O. BOX 506 RUSSELL KANSAS 67665 Elevation 2955 KB
 O. Rep./Geo. MIKE DAVIGNON Cont. EMPHASIS #7 Est. Ft. of Pay 4
 Location: Sec. 19 Twp. 11S Rge. 31W Co. GOVE State KS

Interval Tested 4269-4312 Drill Pipe Size 4.5 XH
 Anchor Length 43 Wt. Pipe I.D. - 2.7 Ft. Run _____
 Top Packer Depth 4269-4264 Drill Collar - 2.25 Ft. Run _____
 Bottom Packer Depth 4315
 Total Depth 4610

Mud Wt. 9.0 lb / gal. Viscosity 50 Filtrate 8.4

Tool Open @ 4:25 pm Initial Blow STRONG BLOW OFF BOTTOM OF BUCKET IN 7 MINUTES
 ISI: BLEED THROUGH 2: NO BLOW BACK ON SHUTIN
 Final Blow STRONG BLOW OFF BOTTOM OF BUCKET IN 11 MINUTES
 PSI: BLEED THROUGH 2" WEAK SURFACE BLOW DIED OUT IN 71 MINUTES

Recovery - Total Feet 660 Flush Tool? NO

65 Feet of GAS IN PIPE
 660 Feet of OIL CUT MUD 30%GAS/20%OIL/50%MUD
 _____ Feet of _____
 _____ Feet of _____
 _____ Feet of _____
 T 124 °F Gravity _____ °API @ _____ °F Corrected Gravity 39 °API

@ _____ °F Chlorides _____ ppm Recovery Chlorides 3800 ppm System

Initial Hydrostatic Mud	<u>2215.6</u> PSI	AK1 Recorder No.	<u>13308</u>	Range	<u>4700</u>
First Initial Flow Pressure	<u>68.1</u> PSI	@ (depth)	<u>4273</u>	w/Clock No.	<u>27573</u>
First Final Flow Pressure	<u>139</u> PSI	AK1 Recorder No.	<u>2023</u>	Range	<u>4000</u>
Initial Shut-In Pressure	<u>1124.6</u> PSI	@ (depth)	<u>4290</u>	w/Clock No.	<u>8376</u>
Second Initial Flow Pressure	<u>177.4</u> PSI	AK1 Recorder No.	<u>10248</u>	Range	<u>4400</u>
Second Final Flow Pressure	<u>289.6</u> PSI	@ (depth)	<u>4607</u>	w/Clock No.	<u>25800</u>
Final Shut-In Pressure	<u>1023.7</u> PSI	Initial Opening	<u>30</u>	Final Flow	<u>60</u>
Final Hydrostatic Mud	<u>2151.7</u> PSI	Initial Shut-In	<u>60</u>	Final Shut-In	<u>120</u>

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 Wichita, Kansas

Representative LEWAYNE TRESNER TOTAL PRICE \$ 950

P. O. BOX 31
RUSSELL, KANSAS 67665

ORIGINAL

TO: N B Company, Inc. *15-063-21404-00-00* INVOICE NO. 60338
P. O. ABox 506 PURCHASE ORDER NO. _____
Russell, KS 67665 LEASE NAME Keller #1
DATE Sept. 17, 1991

SERVICE AND MATERIALS AS FOLLOWS:

Common 190 sks @\$8.10		<u>\$1,539.00</u>	\$1,539.00
Handling 190 sks @\$1.00		190.00	
Mileage (5) minimum		45.00	
Production String		880.00	
Mi @\$2.00 pmp trk chg		10.00	
1 plug		<u>33.00</u>	<u>1,158.00</u>
1 AFU Insert	\$169.00		
3 Baskets	339.00		
6 Centralizers	258.00		
1 Port Colaar	1,680.00		
Guide Shoe Slip-on	<u>109.00</u>		<u>2,555.00</u>
		Total	\$5,252.00

*pd
10-8-91
UC#
15111*

Float Held 15 sks RH 10 sks MH Thank you!

All Prices Are Net, Payable 30 Days Following Date of Invoice. 1 1/2 % Charged Thereafter.

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Wichita, Kansas

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ORIGINAL

INVOICE

HALLIBURTON SERVICES

15-063-21404-00-00

INVOICE NO.

A Halliburton Company

WELL LEASE NO./PLANT NAME		WELL/PLANT LOCATION		STATE	WELL/PLANT OWNER
OWNER 1		BOVE		KS	SAME
SERVICE LOCATION		CONTRACTOR		JOB PURPOSE	
S		CO TOOLS		TOP OUTSIDE NON-PROD. CASING	
TICKET DATE		11/27/1991			
CT NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.
500	RON POOLEY			COMPANY TRUCK	26402

BOWMAN OIL CO
 P O BOX 42
 CODELL, KS 67630

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

QTY REF. NO.	DESCRIPTION	QUANTITY	U/M	UNIT PRICE	AMOUNT
2-117	DRIVING AREA - MID CONTINENT MILEAGE	5	MI	2.60	13.00 *
2-019	PLUGGING BK SPOT CEMENT OR MUD	1	UNT		
4-316	HALLIBURTON LIGHT W/STANDARD STANDARD CEMENT	2450	FT	1,090.00	1,090.00 *
1-308		1	UNT		
3-105	POZMIX A	250	SK	6.28	1,570.00 *
3-121	HALLIBURTON-GEL 2X	65	SK	6.75	438.75 *
2-277	HALLIBURTON-GEL BENTONITE	35	SK	3.90	136.50 *
2-285	ECONOLITE	2	SK	.00	N/C *
2-210	FLOCELE	7	SK	14.75	103.25 *
2-554	HALLIBURTON GEL - 100 LB.	200	LB	.90	180.00 *
2-207	BULK SERVICE CHARGE	88	LB	1.30	114.40 *
2-306	MILEAGE CMTG MAT DEL OR RETURN	10	SK	14.75	147.50 *
		389	CFT	1.15	447.35 *
		84.845	TMI	.80	67.88 *
	INVOICE SUBTOTAL				4,308.63
	DISCOUNT-(BID)				807.87-
	INVOICE BID AMOUNT				3,500.76
	*-KANSAS STATE SALES TAX				148.78
	*-HAYS CITY SALES TAX				17.50
	INVOICE TOTAL - PLEASE PAY THIS AMOUNT				\$3,667.04

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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 ATTORNEY FEES IN THE AMOUNT OF 20% OF THE AMOUNT OF THE UNPAID ACCOUNT.