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- 1/9 - 20,8/2 - 000 County Meade NW NW SE sec. 18 Twp. 33 Rge. 30 West
Operator: License # 6528	2310 Ft. North from Southeast Corner of Section
Name: R. J. Patrick Operating Company	2310 Ft. West from Southeast Corner of Section
Address P 0 Box 1314	(NOTE: Locate well in section plat below.)
Liberal, Kansas	Lease Name W. W. Langhofer Well # 1-18
City/State/Zip 67905-1314	Field Name Kismet East Morrow Field
Purchaser: Elleron Oil Company	Producing Formation Morrow
Operator Contact Person: R. J. Patrick	Elevation: Ground <u>2728</u> KB <u>2739</u>
Phone (316) 624-8483	Total Depth 5750 PBTD 5732
Contractor: Name: Zenith Drilling Corp. RFC	EIVED 5280 4950 4620
License: 5141 STATE CORPORE	4290 3960
	4 1990 3630 3630
Designate Type of Completion X New Well Re-Entry Workover Wich Oil SWD Temp. Abd. X Gas Inj Delayed Comp. Dry Other (Core, Water Supply, etc.) If OMNO: old well info as follows: Operator: Well Name: Comp. Date Old Total Depth Drilling Method: X Mud Rotary Air Rotary Cable 06/25/90 07/06/90 07/14/90 Spud Date Date Reached TD Completion Date INSTRUCTIONS: This form shall be completed in triplicate a Derby Building, Wichita, Kansas 67202, within 120 days 82-3-106 apply. Information on side two of this form will writing and submitted with the form. See rule 82-3-wireline logs and drillers time log shall be attached with	Amount of Surface Pipe Set and Cemented at
Signature Owner Subscribed and sworn to before me this 13 day of Augu Notary Public Notary Public	8/13/90 K.C.C. OFFICE USE ONLY Letter of Confidentiality Attached Wireline Log Received C Dritlers Timelog Received

X

Form ACO-1 (7-89)

ORIGINAL

SIDE THO

Operator Name R. J.			ng Comp	pany Lease Name		Langhofer	Well #	1-18	
ec. 18 Twp. 33 Rg	30	L East		County	Meade				
CC. 10 18p. 33	JC. <u>JO</u>	X West							
NSTRUCTIONS: Show import nterval tested, time to ydrostatic pressures, but f more space is needed.	ool open a	nd closed, temperature	flowing , fluid re	and shut-in pres	sures, whet	ther shut-in pre	ssure rea	ched static level	
rill Stem Tests Taken (Attach Additional Sh	neets.)	X Yes	□ No			Formation Desc	ription		
amples Sent to Geologic	al Survey	Yes	X No		∑ Log □ Sample				
Cores Taken			X No	Name Toronto		Top 4361	Bott 4480		
lectric Log Run		X Yes	□ No	Lansing		4480	4958		
(Submit Copy.)				Kansas C	ity	4958	5100		
				Maraton		5100	5290)	
				Cherokee	-Atoka	5290	560		
				Morrow		5606	5664		
				Chester		5664	5750)	
	Report a		NG RECORD	New U	sed ntermediate,	, production, et	c.		
	Size Hole Drilled	Size C		Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives	
Surface .1	2 1/4	8 5/8"		23	1524	HOWCO	670	2%CC	
Production	7 7/8	4 1/2		11.60/10.5	5765	HOWCO POZ	150	18% salt 3/4 1% CFR2	
	PERFORATION	DECORD			Acid	Fracture, Shot,	Comont So	Nooro Pocond	
	ecify Footag		Interval	Perforated		nd Kind of Mater		Depth	
	'6 to 568				2000 ga	1 of 7½% FE		5631 to 56	
15/2	2 to 566	59			Engand r	1/00 tono C	2 /2000	0# 5631 to 56	
2 563	31 to 563	00			of 20/40 treated	0 sand & 270	Bbls.	J ₁₁ J ₀₃₁ L ₀ J ₀	
TUBING RECORD Si 2 3	ze 3/8	Set A 5631		Packer At none	Liner Run	☐ Yes ☒	No		
Date of First Production 07/14/90	n Producir	ng Method	Flowing	Pumping G	as Lift	Other (Explain)			
Estimated Production Per 24 Hours	oil 3	Bbls.	Gas 1,450	Mcf Wate			Ratio	Gravity 38.5	
isposition of Gas:		100	ME	THOO OF COMPLETE	ON		1	Production Interval	
Vented X Sold		Lease	Open	Hole Perfo	ration	Dually Complete	d Comm	ingled	
(If vented, submit	ACO-18.)		Othe	r (Specify)		<u> </u>		A STATE	
			ness is the	CONTRACTOR OF A STATE					

HALLIBURTON SERVICES

JOB SUMMARY HALLIBURTON LOCATION

HALLIBURTON DIVISION

BILLED	ON
TICKET	NO.

FORMATION NAME			SEC. TWP.	RNG.		COUNTY_	e and a		STATE_	K	2
		TYP	E		NEW USED	WEIGHT	SIZE	FROM	то		MAXIMUM PS ALLOWABLE
ORMATION THICKNESS	FR	ROM	то	CASING	A.J	24	85%	AR +	154	1	1500
NITIAL PROD: OIL	BPD. WATER	BPD.		LINER			,			1	
RESENT PROD: OIL	BPD. WATER	BPD.		TUBING							
OMPLETION DATE	MUD TYPE	1	_MUD WT. 9 9#	OPEN HOLE			1214	KB	1524		SHOTS/FT.
ACKER TYPE	MOD TITE	SET A		PERFORATI	ONS						
OTTOM HOLE TEMP.		_PRESSURE		PERFORATI	ONS						
ISC. DATA		TOTAL	DEPTH 1529	PERFORATI	ONS						
ISC. DATA		TOTAL		BDATA							
	TOOLS AND ACC	ESSORIES		CALLED OL	IT	ON LOC	ATION	JOB STARTED		JOB CO	MPLETED
TYPE A	ND SIZE	QTY.	MAKE	DATE 2	150	DATE	15-90	DATE	15.90	DATE	-15-90
LOAT COLLAR				TIME	7 7 77	TIME /	91	TIME / CO	11.00	TIME)	31/5
LOAT SHOE				-		-	A 1211	D SERVICE	-		
UIDE SHOE					1	NAME		UNIT NO. &		LC	CATION
ENTRALIZERS				-	111	11 19 10 L	4	35720		1000	
OTTOM PLUG				-	10	1 1 1 V	17	PE	1 6	il	0.16
OP PLUG	87%	1	HOUSE	1 1	5-11	1	1	75274	0		1
EAD DOD	7 17	,	an an		A my	11 12		78 M 0		1.6	
ACKER	THE STATE OF THE PARTY.	-		-	4	41		71.00	3		
THER				5.	77	16	Do	1677	1	4	Acres 1
	MATERIA	LS			01	123	89	5377	61	P Series	8 800 / 4
			0	-12	1th	125	20	1902			
REAT. FLUID		DENSITY	LB/GALAF		Sel-	007	15	Sund 39 8 8	-		
ISPL. FLUID		DENISTY	LB/GALAF	PI							
ROP. TYPE	SIZE		LB.			A RESPONSE					
ROP. TYPE	SIZE		LB								
CID TYPE	GAI		%%								
CID TYPE	GAI		%								
CID TYPE	GAI	-	%			The same of the sa					
URFACTANT TYPE	GAI		IN	DEPARTMEN	Т	for the	With the said of	, ,			
IE AGENT TYPE	GAI		IN	DESCRIPTION	OF JOB	(6)	10 0	and 3	11170	and the	36
LUID LOSS ADD. TYPE.	GALL	В	IN								
AND THE RESERVE OF THE PARTY OF	GAL-L	В	IN								
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BULK MATERIALS DELIVERY AND TICKET CONTINUATION

FOR INVOICE AND 990354

DATE	CUSTOMER ORDER	R NO.			WELL NO. AND FARM			COL	INTY			7	STATE	
6-25-90 CHARGE TO					Langhoffer	1-18		CONTRAC	leade	2		/	KS	
		4						CONTRAC	TOR		1	No. B	8568	07
R. J. Pat	rick operat	1113	5		DELIVERED FROM			LOCATIO	N CODE	PREP	ARED B			
CITY & STATE					Hugoton DELIVERED TO			TRUCK N	50335	RECE	IVED BY	Rick Ra	wlins	
					Loc. SW/Pla	ains, KS	;				(Lames)		Anda	1
PRICE REFERENCE	SECONDARY REF. OR	COL	DE		DESCRIPTION			UNITS	1	UNIT	S 2	UNIT	AMOUN	ıT
nerenence	PART NO.	L	D		DECOMI FICK			QTY.	MEAS.	QTY.	IMEAS.	PRICE .		1
504-050	516.00265	2	y P	remium Pl	Lus Cement			125	sk		-	7.08	885	00
504-120		2	BE	alliburt	m Light Cem	ent		545	sk			6.29	3428	05
											1			
										(3/3	>		
507-210	890.50071	2	BF	locele b	Lended ½ 1b/	sk		168	15	al.	100	1.30	218	40
509-406	890.50812	2	BC	Calcium Cl	loride blend	led 2%		12	sk	10	-	26625	315	00
								((1)	<u> </u>	-			
								1	7		-			
							1	B			-			
						4		3			+			
						Dr.	>							
						B								
					100						1			
					6									
					Me									
			40	4	1/10									
											1			
											1			
				Returned STA	PECEIVER PERPORATION OF)					1			
			C	Aileage Charge			LOADE	MILES	TON	MILES				
			S	ERVICE CHARGE	AUG 1 4 199	VED			CU. F	FFFT				
					Wichita, Kansas			-						
500-207		2		Ailense	, Nansas				CU. F	FEET '	705	1.10	775	50
500-306		2		Mileage Charge	TOTAL WEIGHT 6	3138	LOADE	D MILES 5	0 70%	7.ALE 45		.75	1183	84 BXXX
No. B 856	No. B 856807						CARRY FORWARD TO INVOICE			VOICE	SUB-TOTAL SUB-TOTAL			
		A SECTION AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON AN	FO	RM 1911 - R6 REV.	8-85									



WORK ORDER CONTRACT AND PRE-TREATMENT DATA

ATTACH TO INVOICE & TICKET NO. FORM 1908 R-7 DISTRICT YOU ARE HEREBY REQUESTED TO FURNISH EQUIPMENT AND SERVICEMEN TO DELIVER AND OPERATE TO: HALLIBURTON SERVICES THE SAME AS AN INDEPENDENT CONTRACTOR TO: AND DELIVER AND SELL PRODUCTS, SUPPLIES, AND MATERIALS FOR THE PURPOSE OF SERVICING WELL NO OWNED BY FIELD STATE THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT MAX. ALLOW P.S.I. NEW USED FORMATION WEIGHT SIZE FROM TO TYPE FORMATION CASING 5766 THICKNESS FROM PACKER: TYPE SET AT TUBING TOTAL DEPTH MUD WEIGHT OPEN HOLE 5266 SHOTS/FT BORE HOLE **PERFORATIONS** INITIAL PROD: OIL BPD. H₂O BPD. GAS MCF PERFORATIONS PRESENT PROD OIL BPD. H₂O BPD. GAS MCF **PERFORATIONS** TYPE PREVIOUS TREATMENT DATE MATERIALS TREATMENT INSTRUCTIONS: TREAT THRU TUBING ANNULUS CASING TUBING/ANNULUS HYDRAULIC HORSEPOWER ORDERED CUSTOMER OR HIS AGENT WARRANTS THE WELL IS IN PROPER CONDITION TO RECEIVE THE PRODUCTS, SUPPLIES, MATERIALS, AND SERVICES 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 Bersonnel 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 in 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 s

uch change or modifica	ion is made in writing by a du	ly authorized executive	officer of Halliburton.	
I HAN THAT	E READ AND UNDERSTAND AM AUTHORIZED TO SIGN	THIS CONTRACT AND THE SAME AS CUSTO	REPRESENT MER'S AGENT.	
SIGNED	Kallon	CUSTOMER DU	1990,	
DATE 1-5	Vole V	Wiching	Mori on	
TIME	AM PM			

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.

HALLIBURTON SERVICES JOB LOG

WELL NO. 1-18 LEASE LANGINGSIEN TICKET NO. 990213.

CUSTOMER 13 leas STRING PAGE NO. 2-5-50

FORM 201	3 R-2			JOB	TYPE	13	leas ST	DATE 2-5-80
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)	PUM	1PS	PRESSU	JRE (PSI)	DESCRIPTION OF OPERATION AND MATERIALS
NO.	0630	(BFWI)	(GAL)	Т	C	TUBING	CASING	Colles
	1000			000				ON LOCATIONS, RIS LAAP
	1140		- h	700				Lun 1/2 Casing
	1510	. 2.						Casing in
	1520					-		Circulate w/ Lig
	15%		3-		1		250/	Hook up Kump Truck
- "	1547	6	35				150	Pump 150 sk Spo Poz w/12/ sate Michay 4 The Short Power - Deep Plag - Clean Times
-	1835	-					50/	DIEPLACE - DEOD Hag - CHOW LINES
4- 73	1559	7					1150	Displace
	1615	2	89				2/1500	Flort Good - Jos Complete
							0	Flort Good - Jos Complete
					1			
				7				
					-			
								English Services and the services of the servi
								STATE OF PERSONS
					100			ALL 188413310A
								AUG 1 4 1990,
		•						Windle Kanego



BULK MATERIALS DELIVERY AND TICKET CONTINUATION

FOR INVOICE AND 990243

DATE	CUSTOMER ORDER	NO).		WELL NO. AND FARM		co	UNTY				STATE	
7-5-90					Isofhoffer 1-	10		Mar	do			KS	
7-5-90 CHARGE TO					Langhoffer 1-		CONTRA	CTOR			D. D		E 1
R. J. Pat	rick Operat	ii	ng		Same DELIVERED FROM		LOCATIO	N COD	No. B856) T
INATEING ADDITES													
CITY & STATE					Hugoton DELIVERED TO		TRUCK N	50:	RECE	IVED BY	ck Paw	lins	
					Loc. SE/Kisme	t. KS				Esi	ensole		
PRICE	SECONDARY	СО	DE				UNIT	S 1	UNIT	S 2	UNIT		
REFERENCE	REF. OR PART NO.	L	D		DESCRIPTION		QTY.	İMEAS	a. QTY.	IMEAS.	PRICE	AMOUNT	
				150	oft Pozmix Cement 50	/50							
504-043	516.00272	2	B				75	sk			6.85	513	75
506-105	516.00286						75	sk			3.91	293	
506-121					iburton Gel blended	29	3	i ek		10			NC
507-145					2 blended .75%			116	(3/3	3.75	356	
507-210		239			ele blended ½ 1b/sk		38	116		10	1.30		40
509-968					lated Salt blended	187		116	10		-09	116	
								1	10	-			
							^	2					
						^	3						
						(67						
						3							
					A	10,							
						27							
					15								
					6			!					
					11/3								
					U. Ju								
				Returned Mileage			Crac	AF	OFIVER				
				Charge	TOTAL WEIGHT	LOADE	DMILES	OPATO	ON MILES	VIMISS	001		
				SERVICE	CHARGE ON MATERIALS RETURNED		11	10 c	J. FEET100	01	UN		
							Pres		199				
500-207		2	B	SERVICE	CHARGE		Guns, W	in c	Kansas	172	1.10	189	20
500-306		2	B	Mileage Charge	TOTAL WEIGHT 14280	LOAD	ED MILES 5	TO	N MILES .	-7			
			14200			RY FORWARD TO INVOICE SUB-TOTA			.75	267	75		
No. B 856851			F	ORM 1911	- R6 REV. 8-85							1786	50



TICKET NO. 990243-1

A Division of Halliburton Compan

WELL NO. — FARM OR L	1		COUNTY	1	S	TATE	CITY / OFF	SHORE LOCA	TION		DATE		
CHARGE TO	LANGHOFFE	M	M	PEADE	OWNER	Ks		TICE	ET TVDE //	CHECK ONE)	7-5-90	GEN JOB	
CHANGE 10	1 Parrick				SAME				VICE	SALES		No No	
ADDRESS	1 Parent				CONTRACTOR				LOCATION		CODE	J J	
					ZINITI	+				ent, Ps	503	1/0	
CITY, STATE, ZIP					SHIPPED VIA		GHT CHAR		LOCATION		CODE		
WELL TYPE	IMELL CATECO	DV	DAMELL DEDMIT	VIO.	HOUND DELIVERED TO		PPD	COLLECT		oron,	A STATE OF THE PARTY OF THE PAR	32	
OI BZ	WELL CATEGO	KY	WELL PERMIT	VO.	LOCATI			3	LOCATION		CODE		
TYPE AND PURPOSE OF					ORDER NO.	F 67-5			ERRAL LO	CATION			
035			B- 85	1.851									
As considerati	ion, the above-named Custor ustomer's default in paymen te applicable, but never to ex t of 20% of the amount of the	mer agrees to p			erms stated in Hall ving the month in	iburton's current pr which the invoice is	ce lists. Invo	oices payable N tomer agrees to	ET by the 2 pay intere	Oth of the fo	llowing month after ter default at the hig	date	
fees in the amount	t of 20% of the amount of the	e unpaid accour	These terms and condition that the s	ions shall be govern	employ an attorned ed by the law of the defects in workman	he state where serv	ces are perf	ormed or equip	ment or ma	terials are ful	nished.	ARILITY	
FITNESS FOR A PAR of action (whether i supplies or materials	arrants only title to the product on contract, tort, product lie on their return to Halliburt	HERWISE WHI ability, breach on or, at Hallik	CH EXTEND BEYOND THE f warranty or otherwise arton's option, to the all	HOSE STATED IN 1 e) arising out of the owance to the cus	THE IMMEDIATELY ne sale or use of stomer of credit for	PRECEDING SENT any products, sup or the cost of such	ENCE. Halli plies or ma items. In n	burton's liabilit terials is expre o event shall l	ty and cus essly limited Halliburton	tomer's excluded to the replacement	sive remedy in an acement of such p special, incidental	y cause roducts, indirect.	
punitive or consequer	ntial damages.				adirio, di diduit i		nono.	o ovent didir i	idinisal ton	oc nabic for	special, moldental,	, and the second	
PRICE	SECONDARY REF	L	D	ESCRIPTI	ON	UNIT		UNIT		UNIT	AMOU	NT	
REFERENCE	OR PART NO.	C. ACCO	MILEAGE			QTY	MEAS	QTY	MEAS				
000-117						15	M.			235	58	25	
001-016			Pump (MARGE		Stile	15-		1		14/00	de	
030-046			SIN To			,	100	I.	111		32	00	
			2300 10	2,00		-	1 50	7.2	1				
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	11/11						1		1				
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						37/	TE BOR	CODATION	Chamer-				
									GOMMAIS	SION			
							AUG	141	990				
							DNOSE		1				
AC DED /	ATTACHED BUILD	MATER	AL DELIVERY	TICKET NO		D	West	VATION DI	ASION				
AS PER A	ATTACHED BULK	IVIATER				B- 850	×21	wa, Kansa	S		1786	15	
WAS JOB SATISFACTORILY			COMPLIE	TIFY THAT THE FAIL ED WITH IN THE PE IED UNDER THIS CO	RODUCTION OF GO	RDS ACT OF 1938, OODS AND OR WIT	AS AMENDI H RESPECT	TO SERVICES					
WAS DEPENDENT OF EQUIP				1									
WAS PERFORMANCE OF PE	Da I			JOHNS	EBERSE	1:				SUB			
X CUSTOMER OR HI	ATY/CA	INITA				ON OPERATOR					APPLICABLE TAX BE ADDED ON II		
X L	S AGENT (PLEASE PR	77	HALLIBU	URTON							2201 9º	VOICE.	
CUSTOMER OR HI	S AGENT (SIGNATURE)	I APPRO\		USTOMER								

HALLIBURTON SERVICES

JOB

HALLIBURTON WICHTA /

SUMMARY HALLIBURTON LOCATION

			1
BILLED ON	-	70	243
TICKET NO.		TALL	

•			WELL	DATA		N.	1-1			~	
ELD			SEC. 18 TWP. 55	RNG. 30		COUNTY	EARL		STAT	FAS	
RMATION NAME		TYPE			NEW USED	WEIGHT	SIZE	FROM	ТС)	MAXIMUM PSI ALLOWABLE
RMATION THICKNESS	5FR		то	CASING		10.5/11-6	4:	KB	236	6	
ITIAL PROD: OIL	BPD. WATER			LINER		1					
RESENT PROD: OIL	BPD. WATER	BPD. C	GASMCFD	TUBING			- 717				
OMPLETION DATE	MUD TYPE		MUD WT	OPEN HOLE			27%		59%	la	SHOTS/FT.
CKER TYPE		SET A	т	PERFORATIO	NS						
OTTOM HOLE TEMP		PRESSURE		PERFORATIO	NS						
SC. DATA		TOTAL I	DEPTH	PERFORATIO	NS						
				DATA							
	TOOLS AND ACC	ESSORIES		CALLED OUT		ON LOCAT		JOB STARTED)	JOB	COMPLETED
TYPE /	AND SIZE	QTY.	MAKE	DATE 2.5		DATE 2	5.94	DATE	90	DATE	2370
OAT COLLAR				TIME 063		TIME /	000	TIME /5	7	TIME	1615
OAT SHOE						PERSC	NNEL AN	ND SERVICE	UNITS		
JIDE SHOE					1	NAME		UNIT NO. &	TYPE		LOCATION
ENTRALIZERS	1		RECORDER NO.								
OTTOM PLUG	1 0 MP			E184 230	10	(26.93	3945	*	Lie	real, to
OP PLUG	~										
AD				C DAVIS		21	522	110 75	tre		,1
CKER							No.				
THER				Phillips		10	528	1623.53	63	the	STON K
	MATERIA	LS		7000000	E EAG	C. C.		7677 42	-	, , ,	1 3
REAT. FLUID			LB/GALAPI		NE ELZ						
SPL. FLUID		DENISTY	LB/GALAPI					E CONTRACTOR			
ROP. TYPE	SIZE		LB								
OP. TYPE	SIZE		LB								
CID TYPE	GAL		%%			COLUMN TO THE REAL PROPERTY.					
CID TYPE	GAL		%%								
CID TYPE	GAL		%								
URFACTANT TYPE	GAL		IN	DEPARTMENT	6	ANTAIT &					
E AGENT TYPE	GAL		IN	DESCRIPTION	OF JOB						
UID LOSS ADD. TYPE	GALL	В	IN	4/3	1900	STREET	3				
ELLING AGENT TYPE_	GAL-L	В	IN								
RIC. RED. AGENT TYPE	GALL	В	IN								
REAKER TYPE	GALL	В	IN	JOB DONE TH	RU: TI	UBING	719	ASING D	ANNULU	s 🔲	TBG./ANN.
OCKING AGENT TYPE		G	ALLB.			, /	11/1	1)-1	11		
ERFPAC BALLS TYPE_	CONTRACTOR OF STREET	Q	TY.	CUSTOMER REPRESENTA	IVE X	//	MAH	John	1	1	
THER					-	V	100				
THER				HALLIBURTON OPERATOR	101	and Fac	ESOFE		COPIE:		
	GOLDEN STATE OF		CEMEN	TDATA							
STAGE NUMBER	CEMENT	BRAND	BULK		ADDIT	TIVES			YIE		MIXED
OF SACKS			SACKED						CU.F	r./sk.	LBS./GAL.
1 150	1/50 - 8/102		B 18% Sale	1/1" Flor	18	3/11.0	FR-2		1.3	1	14.52
					1						
									13-15		
									1		
	PRESSURES IN	PSI	SUMM	ARY			VOL	JMES			
CULATING	DIS	PLACEMENT_		PRESLUSH: BBL	-GAL			TYPE_			
EAKDOWN	MA	XIMUM		LOAD & BKDN:	BBLGA	L		PAD	: BBLG/	AL	
ERAGE	FRACTU	RE GRADIENT_		TREATMENT: BE	L-GAL.			DISE	L BBL	GAL.	85
UT-IN: INSTANT	5-MIN			CEMENT SLURR		GAL. 35			-		
	HYDRAULIC HOR	SEPOWER			County.						
RDERED	AVAILABLE		_USED	TOTAL VOLUME:	BBLG	AL.	REM	ARKS			
	AVERAGE RATES	IN BPM					Manissir				
FATING				-	1144	1 0		IN			
EATING	CEMENT LEFT I	N PIPE	VERALL		19	1 4 190	m		71.25.65		
1/3	REASON	June 1	100	CON		9	UI				
ETET	REASON	1700 1507		UUIV	- French	1// 6// 6					



WORK ORDER CONTRACT AND PRE-TREATMENT DATA

FORM 1908 R-7

A Division of Halliburton Company

ATTACH TO INVOICE & TICKET NO.

DISTI	RI	et Liberal, KS					DATE	6-25	-90
TO:	1	HALLIBURTON SERVICES YOU ARE HEREBY REQU	ESTED TO F	JRNISH E	QUIPMENT A	ND SERVIC	EMEN TO	DELIVER AN	ND OPERATE
		THE SAME AS AN INDEPENDENT CONTRACTOR TO:	. Pota	ick	DARR	ating			
	,	AND DELIVER AND SELL PRODUCTS, SUPPLIES, AND MATERIALS FOR	THE PURPOSE	OF SERVI	CING	ER)			
WEL	L	NO. 1-18 LEASE LONGHOFF		SEC	18	TWP	335	RAN	NGE 3041
FIELD	D	COUNTY Deade STA	TE_KS		OWNED	BY 5/	4mi=		
		THE FOLLOWING INFORMATION WAS	100	D BY TH			IS AGEN	Т	
FORM				NEW USED	WEIGHT	SIZE	FROM	то	MAX. ALLOW. P.S.I.
FORM			CASING	N	24	828	KB. 7	1526	1500
PACK	ΚE	R: TYPE SET AT	LINER						
тота	L	DEPTH 1524 MUD WEIGHT 9.5 #	TUBING						
BORE	EH	HOLE	OPEN HOLE			1214	KB	1524	SHOTS/FT.
INITIA	AL	PROD: OILBPD, H ₂ OBPD, GAS MCF	PERFORATION	ONS					
PRES	SFI	NT PROD: OILBPD, H ₂ OBPD, GASMCF	PERFORATION	ONS					
			PERFORATION	ONS					
DDEV	///	US TREATMENT: DATE TYPE			_ MATERIALS				
F	2	o Alexand by 125 SK Promism Plus 2	545 S	hat Fl	646 9	+148		Displace	a to the day
CUST	0	MER OR HIS AGENT WARRANTS THE WELL IS IN PROPER CONDITION	TO RECEIVE TI	HE PRODUC	CTS. SUPPLIE	S. MATERIA	LS. AND SEE	RVICES	
100		nsideration, the above-named Customer agrees: THIS CONTRACT MUST BE SI							
a)		To pay Halliburton in accord with the rates and terms stated in Halliburton's current price payment of Customer's account by the last day of the month following the month in which the but never to exceed 18% per annum. In the event it becomes necessary to employ attorne of 20% of the amount of the unpaid account.	he invoice is dated	Customer and	reas to nav intere	et thoronn after	dofault at the h	ighoot loughel oon	trant rata applicable
b)		To defend, indemnify, release and hold harmless Halliburton, its divisions, subsidiaries, parer any claims, liability, expenses, attorneys fees, and costs of defense to the extent permitted b	nt and affiliated cor	mpanies and t	he officers, direct	ors, employees,	agents and ser	vants of all of th	em from and against
		 Damage to property owned by, in the possession of, or leased by Customer, and/or "well owner" shall include working and royalty interest owners. 	the well owner (i	f different from	n Customer), incl	uding, but not li	mited to, surfac	e and subsurfac	e damage. The term
		2. Reservoir, formation, or well loss or damage, subsurface trespass or any action in the r							
		Personal injury or death or property damage (including, but not limited to, damage to the from pollution, subsurface pressure, losing control of the well and/or a well blowout or the	he use of radioactiv	ve material.					
		The defense, indemnity, release and hold harmless obligations of Customer provided for in negligence, strict liability, or the unseaworthiness of any vessel owned, operated, or furn the preparation, design, manufacture, distribution, or marketing thereof, or from a failure to not apply where the claims or liability are caused by the gross negligence or willful misc subsidiaries, parent and affiliated companies, and the officers, directors, employees, agents are	warn any person onduct of Halliburt	of such defection. The term	ect in the data, p	roducts, supplie	s, materials, or	equipment of H	alliburton whether in
c)		That because of the uncertainty of variable well conditions and the necessity of relying on supplies or materials, nor the results of any treatment or service, nor the accuracy of any covill use their best efforts in gathering such information and their best judgment in interpretary damages arising from the use of such information.	facts and supporting	g services fur					
d)		That Halliburton warrants only title to the products, supplies and materials and that the s DF MERCHANTABILITY, FITNESS OR OTHERWISE WHICH EXTEND BEYOND THOSE ST cause of action (whether in contract, tort, breach of warranty or otherwise) arising out of the promaterials on their return to Halliburton or, at Halliburton's option, to the allowance to the punitive or consequential damages.	A Solo or use of or	EDIATELY PR	ECEDING SENTI	ENCE. Halliburto	on's liability and	Customer's excl	usive remedy in any
e)		That Customer shall, at its risk and expense, attempt to recover any Halliburton equipment, it shall pay Halliburton its replacement cost unless such loss is due to the sole negligence of the lesser of its replacement cost or the cost of repairs unless such damage is caused by shall, in addition to the foregoing, be fully responsible for loss of or damage to any of Halli eturned to the landing, unless such loss or damage is caused by the sole negligence of Hallii	y the sole negliger	alliburton equi	oment, tools or in	struments are	damaged in the	well, Customer	shall pay 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.

SIGNED CUSTOMER

DATE

TIME A.M. P.M.

We certify that the Fair Labor Standards Act of 1938, as amended, has been complied with in the production of goods and/or with respect to services furnished under this contract.



TICKET No. 990354 2

A Division of Halliburton Company

FORM 1906 R-11					L		DE LOCATION		DATE	
WELL NO. — FARM OR LE	Lang h	Afra	Meade	STATE	5	TIY/OFFSHO	ORE LOCATION		L-25-5	10
CHARGE TO	an correspond	21102	1 7	OWNER	**		TICKET TY	YPE (CHECK ONE)	NITRO	SEN JOB
ADDRESS	atrick c	Operation	-g	CONTRACTOR	lick a	least me	SERVICE	SALES	CODE	NO 💹
ADDRESS				7-14	Dala		1/1/	est A	T SA	e com
CITY, STATE, ZIP				SHIPPED VIA	FREIGI	HT CHARGES	2 LOCA	ATION	CODE	
MELL TYPE	WELL CATEGOR	DV	WELL PERMIT NO.	DELIVERED TO	PI PI	PD COLL	LOCA	MON	CODE	35
WELL TYPE	O3 wh		WELL PERIVIT NO.	DELIVERED TO	Dland	·	3	ATION	CODE	
TYPE AND PURPOSE OF		I DOCET	Down	ORDER NO.	1 Faight	•	REFERRA	L LOCATION		
	next Swets	100 CSG	B-856807	1. 1. 1. 1. 1.	,	Esta bassiana	- LI NET L	ah - 20ah - f ah - f-	II	data
of invoice. Upon Cu lawful contract rate	stomer's default in paymen applicable, but never to ex	t of Customer's acc ceed 18% per annur	alliburton in accord with the rates and te ount by the last day of the month follow n. In the event it becomes necessary to e lese terms and conditions shall be governe	ing the month in which ingloy an attorney to e	the invoice is on the invoice collection to where service	lated, Custome of said accou	r agrees to pay int, Customer agr	interest thereon af rees to pay all colle	ter default at the hig ection costs and atto	hest
Halliburton war	rrants only title to the produ	icts, supplies and m	aterials and that the same are free from d EXTEND BEYOND THOSE STATED IN TI arranty or otherwise) arising out of th n's option, to the allowance to the cust	efects in workmanship HE IMMEDIATELY PRE	and materials.	HERE ARE NO	WARRANTIES, E	XPRESS OR IMPLI	ED, OF MERCHANTA	BILITY, cause
supplies or materials of punitive or consequent	on their return to Halliburte tial damages.	on or, at Halliburto	arranty or otherwise) arising out of the n's option, to the allowance to the cust	omer of credit for the	cost of such i	tems. In no ev	ent shall Hallibu	rton be liable for	special, incidental, i	ndirect,
PRICE	SECONDARY REF	L	DESCRIPTION	ON	UNITS	1	UNITS 2	UNIT	AMOUN	UT
REFERENCE	OR PART NO.	C. ACCOUNT			QTY	MEAS	QTY M	EAS PRICE	Aiviooi	
000-117		/	MILEAGE		35	phis.	116	1 7.35	82	25
001-016		1	PMD CHG.		1526	Fi.	84	25	945	00
030-018		1	5 w 700 Plu	6	85/8	1	12	1	100	on
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			1 200	10)		7/5	2 !			
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			MILLIA	Wille	7)1					
			1 n 111	MAIA						
			U1/11 11	V)						
		LEP.	13/11/							
	~ 1/1	MH	DEAL							
	1/1//		STATE GERFORATION							
	11 ~		4110 4 4	COMMISSION						
			AUG 141	990			i			
			CONSERVATION							
			GONSERVATION DI Wichita, Kansa	VISIUN						
			The state of the s				. !			
AS PER A	TTACHED BULK	MATERIAL	DELIVERY TICKET NO	В	-851	807			1,805	73
WAS JOB SATISFACTORILY O	COMPLETED?		WE CERTIFY THAT THE FAIR COMPLIED WITH IN THE PR	LABOR STANDARDS A	ACT OF 1938, A AND OR WITH	S AMENDED H	AS BEEN ERVICES		0000	11
WAS OPERATION OF EQUIPM			FURNISHED UNDER THIS CO	NIRACT.						
WAS PERFORMANCE OF PER	SONNEL SATISFACTORY?	11/2	- frank	11.	est :			SUB	7933	04
X CUSTOMER OR HIS	AGENT (PLEASE PR	KIT Y	- many	HALLIBURTON (OPERATOR .				APPLICABLE TAX BE ADDED ON IN	
x 1x 1	Hollruf	/	HALLIBURTON APPROVAL						THE STATE OF THE	, oloc.
CUSTOMER OR HIS	S AGENT (SIGNATURE)		USTOMER	Maria de la companya della companya					

CUSTOMER

JOB LOG

WELL NO. 148 LEASE Langhoffed TICKET NO. 990354

CUSTOMER R.S. Patrick Operating PAGE NO. L

010 cmt Surface C56 DATE 6-25-90 VOLUME (BBL') (GAL) 17.30 Called out. Roady Now! endos Dala 150' 19:00 TOUTISEY 4 CHEC 19:15 IRON TO RG FLOOR O RG TOH /0,0 19:30 RUN CSG. Rigup CSGées 21:00 TO.CSG Hookup to creculete Charleting Hook up to cont. mux Pap 5455 + HLC (4) 2 "DCC, "4" Flocal at 173" 150 mil + Pap 125 5 to Promisa 915 206 CL/4 4 Flowbell 148 22:46 200 100 Frish Coment. Deap Plag. 100 START Displacement Has 55/50 Frish Displacement, Land Plag PSIUP. 22 51 22:52 94.4 23:14 850/0 Release Back Holding 23:15 CONSERVATION DIVISION Circulated coment to Surface Landed Plug Float was Holding Thanks Fox Calling Hallibuston Sucs Lason A lasont of CRF13!

DT-10 Liberal Office Machines

Pressure Break Down

Test ticket no. 3231	Reco	order no. <u>133</u>	73 Capa	city6400	Rec. Depth.	4342'
Initial Flow pressure	to	80	Time	Given 15	Computed 15	
Initial Closed in pressure	1102			30	24	
Final Flow pressure80	to _	74		20	20	
Final Closed-in pressure	1067			40	39	
Initial Hydrostatic pressure	2087		Final Hydrostatic	press2087	Temp	108

Minutes		Minutes		Minutes	Press	Minutes	Press
0	77	0	80	0		0	74
5	77	3	454	5	80	3	219
10	77	6	654	10	77	6	416
15	80	9	803	15	74	9	541
20		12	903	20	74	12	654
25		15	974	25		15	741
30		18	1032	30		18	816
35		21	1077	35		21	870
40		24	1102	40		24	912
45		27	The state of the state of	45		27	954
50		30		50		30	993
55		33		55		33	1022
60		36		60		36	1048
65		39		65		39	1067
70		42		70		42	
75		45		75		45	
80		48		80		48	
85		51		85		51	
90		54		90		54	
95		57		95		57	
100		60		100		60	
-105		63		105		63	
110		66		110		66	
115		69		115		69	
120		72		120		72	
		75		125		75	
		78		130		78	
		81		135		81	
	Sauge to the sa	84		140		84	
	<u> </u>	87		145		87	
44.04		90		150	<u> </u>	90	
		93		155		93	
		96		160		96	
		99		165		99	
		102		170		102	
		105		175		105	
		108		180		108	
		111		12.77		111	
		114				114	
		117				117	
		120				120	

DT-10 Liberal Office Machines

Pressure Break Down

Test ticket no. 3229 Recorder no. —	13373 Capa	acity6400	Rec. Depth.	5118'
Initial Flow pressure 96 to 141	Time	Given 20	Computed 20	_
Initial Closed in pressure1591		40	39	
Final Flow pressure		60	60	
Final Closed-in pressure1524		60	60	
Initial Hydrostatic pressure2432	Final Hydrostatic	press24	19 Temp	117

Minutes	Press	Minutes	Press
0		0	141
5	96	3	922
10	103	6	1221
15	119	9	1334
20	141	12	1408
25		15	1453
30		18	1488
35		21	1514
40		24	1536
45		27	1553
50		30	1562
55		33	1572
60		36	1581
65		39	1591
70		42	
75		45	
80		48	
85		51	
90		54	
95		57	1.00
100		60	
105		63	
110		66	
115		69	
120		72	
		75	
		78	
		81	
		84	
		87	
		90	
		93	17.00
		96	
		99 .	
		102	
		105	4
		108	
		111	
		114	ALC:
I - lucy some	Mind of the state	117	1990

Minutes	Press
00	
5	225
10	232
15	241
20	254
25	274
30	283
35	293
40	300
45	306
50	312
55	319
60	325
65	13 7
70	and the
75	11117
80	
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180	Kiji.
1 0000	
11 - 134	100
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Final Closed	in Press.
Minutes	
0	325
3	709
6	1083
9	1221
12	1289
15	1340
18	1379
21	1405
24	1424
27	1443
30	1456
33	1469
36	1479
39	1489
42	1495
45	1501
48	1508
51	1514
54	1517
57	1520
60	1524
63	
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