KANSAS CORPORATION COMMISSION

OIL & GAS CONSERVATION DIVISION

WELL COMPLETION FORM

WELL HISTORY - DESCRIPTION OF WELL & LEASE

Form ACO-1 September 1999 Form Must Be Typed

ORIGIN

Operator: License #5293	API No. 15081-21373
Name:Helmerich & Payne, Inc	County:Haskell
Address:1579 E. 21st Street	SENENE_ Sec3Twp29_S.R32_ East West
City/State/Zip:Tulsa, OK 74114	4030 feet from S / N (circle one) Line of Section
Purchaser:	1250 feet from E / W (circle one) Line of Section
Operator Contact Person:Sharon LaValley	Footages Calculated from Nearest Outside Section Corner:
Phone: (_918_)742-5531	(circle one) NE SE NW SW
Contractor: Name:Cheyenne Drilling	Lease Name:Dennis Well #:1-2
License: 5382	Field Name:Hugoton
Wellsite Geologist:	Producing Formation:Chase
Designate Type of Completion:	Elevation: Ground:2906' Kelly Bushing:2912'
X New Well Re-Entry Workover	Total Depth:2865 ' Plug Back Total Depth:2797 '
Oil SWD SIOW Temp. Abd.	Amount of Surface Pipe Set and Cemented at745 Fee
X Gas ENHR SIGW	Multiple Stage Cementing Collar Used? ☐ Yes ■ No
Dry Other (Core, WSW, Expl., Cathodic, etc)	If yes, show depth set Fee
If Workover/Re-entry: Old Well Info as follows:	If Alternate II completion, cement circulated from2851'
	feet depth to _surface w/525 sx cmt.
Operator:	
Well Name:	1016 1 20 1
Original Comp. Date: Original Total Depth:	Drilling Fluid Management Plan (Data must be collected from the reserve pit)
Deepening Re-perf Conv. To Enhr./SWD	(Data must be collected from the reserve pit)
Plug Back Plug Back Total Depth	Chlorida content Fet 1000 ppm Fluid volume 1000 bblo
Commingled Docket No	Chlcride content _Est 1000 ppm Fluid volume _1000 bbls Dewatering method used
Dual Completion Docket No	Location of fluid disposal if hauled offsite:
Other (SWD or Enhr.?) Docket No	Location of fluid disposal if fladied offsite.
Outer (OWD or Elimin.)	Operator Name:NA
01/27/0101/29/0103/19/01	Lease Name:License No.:
Spud Date or Date Reached TD Completion Date or	Quarter Sec. Twp. S. R. East Wes
Recompletion Date Recompletion Date Recompletion Date	County: Docket No.:
INSTRUCTIONS: An original and two copies of this form shall be filed Wichita, Kansas 67202, within 120 days of the spud date, recompletion 107 apply. Information of side two of this form will be held confidential form (see rule 82-3-107 for confidentiality in excess of 12 months). One this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CF abandoned wells.	for a period of 12 months if requested in writing and submitted with the copy of all wireline logs and geologist well report shall be attached with
	late the oil and gas industry have been fully complied with and the statements
herein are completed and correct to the best of my knowledge.	
Signature: Sharm la Valley	KCC Office Use Only
Title: _Engineer Tech Date: _5(17/0]	Letter of Confidentiality Attached
Subscribed and sworn to before me this 17th day of May	If Denied, Yes Date: , Wireline Log Received
20.01.	Geologist Report Received
	ilic Oklahoma UIC Distribution
Date Commission Expires: 6/13/09	TYE COUNTY
	(p. 06/13/04

Side Two

•			-			_			S	Well #:	1-2	
Sec3 Tv					East			nty:				
interval tested, tip	me tod n hole	ol open an temperati	d close are, flu	ed, flowin ıid recove	g and sh ry, and fl	ut-in p low ra	pressures, w ates if gas to	hether shut- surface tes	Report all final co in pressure reach t, along with final geological well si	ed static leve chart(s). At	el, hydr	ostatic
Drill Stem Tests		onal Sheets	-1	☐ Yes		No	☐ Lo	g Formati	on (Top), Depth a	nd Datum		Sample
Samples Sent to				☐ Yes		No		Name		Тор		Datum
Cores Takes				∐ _{Yes}		No						
Electric Log Run <i>(Submi</i>	t Copy)			Yes		No						
List All E. Logs R	un:											
Dual Spa	ce Neu	tron										
	easan Maharen di-se - di-se - dianet el							rann gerryalmila kalan dankar ar gallundan dankar menan			·	announced and species and the letter of the
			Reno		SING REG		New surface, inte					
Purpose of String	1	e Hole Orilled	Size	Casing N O.D.)	Weigl Lbs./F	ht	Setting Depth	Type of Cement	# Sacks Used	Type and F	Type and Percent Additives.	
Surface	121	4	8 5/8		23#		745 '	HLC	180	2% CC &1/# Floce		le
								Prem plus	125	2% CC &1	C &1/# Flocele	
Production	7 7/	8	5 ½		15.5#		2851 '	Prem Lite	400	1/# flocele	a disease and the second	
								50/50 Poz	125	10% Salt 8	% 1⁄4# floo	ele
Dumana		Danil		A	DDITIONA	AL CEN	MENTING/SQU	EEZE RECOR	D			
Purpose: Perforate Protect Ca		Depth Top Bott		Type of	Cement	# S	Sacks Used		Type and Perce	nt Additives		
Plug Back Plug Off Z												
Shot Per Foot	5	FORATION Specify Foo rrington 26	tage of	Each Inter				(Amount a	Shot, Cement Sque and Kind of Material OQ N2 foam cont 4	Used)		Depth
	110	migton 20						3/30 white sa				
							AN A					
TUBING RECO	RD	Size 2 3		et At 2677		cker A	t Li	ner Run	Yes	No		
Date of First, F	Resume 3-19-0		on, SW	D or Enhr.	Pro	oducin	g Method Flowing	■ Pi	umping Gas L	_ift	er (Expla	ain)
Estimated Prod Per 24 Hours	duction	Oil	Bb 0	ls Ga	ns Mc1 181	f	Water 53	Bbls	Gas-Oil Rati			Gravity
Disposition of Ga	IS		ľ	METHOD C	F COMPL	ETION		Production In	terval			
☐ Vented Ⅲ (If Ven.		Use	ed on L 18)	ease		Open		Perf.	Dually Comp.	Commingled _	_2648-	2657 '
•					니	Other	(Specify)			_		

MID-CONTINENT NWA CEMENTING CALL FOR SALES & SERVICE MAKE SAFETY A CORE VALUE IN YOUR TE! PLEASE WORK & DRIVE SAFELY!



															,
COMPANY CH		NE DI	RILLI	NG				ow	NER H &	P.				date 1	/25/01
						· · · · · · · · · · · · · · · · · · ·	******************								
CONTRACTOR (ENNE	#8			PI	~	·		SEC	, TWN, I	RNG	SEC	3-29S-	32W
LEASE DENN					1	L NO. 1		COUN	TY/ STATE	HAS	KELI	L CO	, KS	RT MIL	EAGE 60/30
DIRECTIONS S	UBLE	TTE,	KS (5 NO	RTH	- 4 EA	AST ON	144 H	WY - 1/4	SOU	TH -	WES	TIN	ГО	

OTTO TO		···											artula (Illimota au		
QUOTE: 2057				SO	11053	347		KE	3110534	8					
SURFACE YES	1	TER.		L	ONG S	TRING		LIN	ER		PLUC	BAC	K		PTA
SQUEEZE	l W	HIPSTOC	CK		OTI	HER					l				1
CASING SIZE	WEIG				EAD		PLUG C		SWAGE		CSG SW	IVEL	TOP P	LUG	BOTTOM PLUG
8 5/8	24#			8 R		-	YES	,	YES					STIC	
TBG / DP SIZE	WEIG	3HT		THR	EAD		TD 750 F	r	% EXC			MUD	WT		HOLE SIZE
NUMBER AND TYP	E TRUC	VC WANT	TED E	CNA	[0. D]	TIT TZ	/30 F	L	100%	0			•		12 1/4
	L INUC	MAN CAN	TED I	CIVI	- W D	ULK									
REMARKS													***		
# OF SACKS 220]	гүре Р	P HL	СС		ADDITIV	ES 2%	CC, 1/4	4# FLOC	ELE					
# OF SACKS		ГҮРЕ			- I	ADDITIV	ES 12.3	† 2.	.05 CF	11.6	GAL			*	
# OF SACKS 125	7	гүре Р	REM :	PLU	JS A	ADDITIV	ES 2% (CC. 1/4	# FLOC	FIF					
# OF SACKS	7	ГҮРЕ													
# OF SACKS	 -	YPE					ES 14.8#	1.3	84 CF	6.3 G	AL				
						DDITIV	ES								
# OF SACKS	T	YPE			A	DDITIV	ES	***************************************			~~		***************************************		
SPACER TYPE			QUAN	TITY		T	REMARKS) `							
SPACER TYPE			QUAN	TITY			REMARKS	<u> </u>							
KCL			CLAYI	IX II				LO-SUF	RF.				CLASTA	VD	
CASING SIZE	CASIN	G WEIGI	нт	TL	IREAD										
8 5/8	24#				RD			NC	DE SHOE				LATC	H DOWN	PLUG & BAFFLE
INSERT FLOAT SHO	Е	FLOAT	r shoe				FLOAT CO	LLAR	**************************************		T		T FLOA		
CENTRALIZER-QTY	-)		SIZE				···				1 EA		W/FIL	L TUBE
3 EACH WALL CLEANERS-QT	Y	TYPE	L	8 5/3	8 X 12 DV T							SER	IES 4	1	
LIMIT CLAMPS] DV I	OOL					OV PLUC	G SET			
ENVIT CLAIMFS			ELD-A E ACH				CMT BA	SKET			OTHER		***************************************	************	
REMARKS							<u> </u>	- Company Instrumental							
PRDERED BY: DAN	ASO		1-316-	272-	1303								T my	0.7.6	
				- 1 4										OF CAL	
ALL TAKEN BY: I	JAKK	Y/DON	٧											READY:	
REW CALLED:							***************************************						TIME	SPU	D SAT AM
															A BLIFE

ST.	L A	LLIBURT								ΓŦ	TICKET #	#			TIC	- Charles Dr. A spring		PA
		r'rib û v i	ION		JOB S	UM	MARY	70006	;			1102	8700			KET DATE	DI	
REGIO	, l	North America	a	P	NWA / COUNTRY			-		ВГ	BDA / ST/	TATE	7, 5			UNTY 90/kp1		·
	D/EMP#	a val	304		EMPLOYEE NAM	4É				P!	PSL DEP	PARTMENT	ŕ			40/261	<u> </u>	
LOCATI	LIO/O		307		COMPANY	11-	3.				USTON	MER REP	PHONE		A			
6-10	FAMOUNT	<u> 10) </u>			WELL TYPE					4	39 (M 1	PHONE		ΩR	LCIA	IA	
				ļ	(02					API / UWI	i#	7			IVIII	IH	L
WELL L	OCATION	1.E SUE	de Be.	E	DEPARTMENT					JO)B PUR	RPOSE CO	DE	25		18.3	'a	W
LEASE	/ WELL #	L-7	4 85 475 475	٤	SEC / TWP / RNG	i ~	- 9 M	32		HF	ES FAC	ILITY (CLC	OSEST TO WE	LL SITE)			· 7	
	P NAME/EMP	# (EXPOSURE HOUR	RS) HRS	T HES EI	MP NAME/EMP # (E	EXPOSI	IRE HOURS)	HRS	THES EME			XPOSURE HO		Tues E	TAD NAME/EN			T
TIDA	avis	106304	2/2		LPWIS &			5/2		IVAIVIE, LIV	/IF # (EA)	PUSURE RU	JUHO) IIIO	HES EI	MP NAME/EIVII	IP # (EXPOSURE	HOURS)	HRS
15.37	MAR	179974	1 272	RiSI	mmons	21	1511	5/2						+				
MM	HILL	17.6452	2/2															
17-HM	HES UNIT	PJ 10000	5 572	ļ	LICO LINET NU				 									
1.02	HES UNIT	NOMREHO	R/T MILES	<u> </u>	HES UNIT NU	MBEH	3	R/T MILES		HES UNIT	'L NOWR	JERS	R/T MILE	3	HES UNIT	NUMBERS		R/T MILES
	ns 7	5821	30										_	 				-
529	147-6	5011	30															<u></u>
																		<u></u>
	Name Thickness		From:)е:					CALLED	OUT	$\overline{}$	ON LOC	CATION	-IOB !	STARTED	JOB CC	MDII	CTED
Packe	er Type		Set	t At			DAT	L	29-0		1	1-79-0	01		9-01	7-25		
		np:) !		TIM		3 / 90			1930	,	20		213		
	Data T	OOLS AND A	Total De			l	e de la companya de l		527.654			WI	ELL DATA				27.27.15.2	2000 E 1800 E
	TYPE ANI	D SIZE	QTY		MAKE	ĺ	2:77x340 v.c.	SEXWED	NEW	//USED	Tw	/EIGHT	SIZE	1100	FROM	ТО	T _{MAX}	(ALLOW
	Collar Ing &		B)	H		ı	Casing		M	Ū	15	. 5	5/2			2850	+	.,
	Shoe Cil		-			ĺ	Liner			-	Ι			<u> </u>				
	Shoes <i>{Z(</i> alizers <i>\$ u</i>	3J				i -	Liner Tbg/D.P.						-					
Bottom					W	i	Tbg/D.P.				+-		-	-			- euc	~=0/ET
Top Plu	ug 5 W	£ 9			***	ı	Open Ho							+			SHC	OTS/FT.
Head	NoC.	8-6			C	l	Perforation							1_			+	
Packer		e 8			A-78		Perforation										_	
Otner	CIGM	MATER	<u> </u>	725 V V	U		Perforation		SOATIO		1290000	A RIPERSON	TNG HOURS	- 4634	EST-SET-SET-SET-SET-SET-SET-SET-SET-SET-	**************************************		
1		WATER			Lb/Gal		DATE		HOUR			DATE	HOURS		MARK DE	SCRIPTION	OF JU	IB
Disp.	Fluid	Size	Density	Lb	Lb/Gal	ļ										(m)	_	
Prop.	Type	Size		Lb		I									5	1/2_		
Acid T	Type	Gal Gal		_%		1		-+								16		
NE Ag	gent	Gal Gal		In		ļ												
Fluid I	Loss	Gal/Lb		In		1	-				<u> </u>					-, 5		
Fric. F	Red	Gal/Lb		_ In		1		**************************************			THE STATE OF THE S	Marin 1007 2000 5						
Blocki	ina Aaent	Gal/Lb	Ga	ıl/l h			TOTA	iL		ľ	T/	OTAL.						
Other.		`		/		j	ORDERE	n		- LE	HYDF	RAULIC	IORSEPOW	ER				
1							TREATED					RAGE RA	vail. ATES IN BPI isp.			Used		
Other.							FEET /	45		¥	CE	EMENT LE	EFT IN PIPE ason	5	11	Ove	raii	
						or and a	CE		DATA				<u> 15011</u>	200 NA 98 NA 9	<u> </u>			
STAGE /	SACKS	CEMENT		K/SKS	11.7	4 2 6 4	· ·		Ar	DDITIVE	<u> ES</u>					YIELD	LBS	S/GAL
1	125	50/50/07	7 5	<u>ファ</u> 3.		(O(P	10. 10. 10	7.50	2 L							207	12.	A 25
	Je.s	DAIDAN AR			140 51	UVE !	r, 0	NOO W	AT-							1.28	14	ry
																-	 	
Circulati	ing			Displac	ement					Pref	fluch.	Gal	GBD /0		75.	pe <i>Mark f</i>	le o (b)	4
Breakdo	own			Maximu	ım					Load	d & Bkd	dn: Gal-	-BBI			pe id: BBI-GaI	1 Mars	
Average	ə			Frac Gra	radient					Treat	atment	Gal-	-BBI		Dis	sp.BB) Gal _	66	7
Shut In:	Instant			5 Min _		15	, Min	-				urr Gal		1740	- 78	37.1		
Frac Rir	ng#1			rac Rin	ia #2		enter E	Fra	-a Dines#	lotai	al Volum	ne Gal-	-BBI	W. L. DY				
		NFORMATIO						CU	SIJOMJER	S REPH	'RESEN	NTATIME S	SIGNATURE	Fray mir	19 #4		<u> 2500</u> 2	44000
				Der x 1	Ibili ie ee.			\perp	[Mal	<u> 1512</u>								

TI H	ĄLĻIE	BURT	ON [®]		JOB I	LOG	ORDER NO. 70006 TICKET # TICKET DATE
REGION ,	North A	America	<u></u>	NWA /	COUNTRY	1319	BDA/STATE COUNTY
MBU ID / EMP #	60	inh:	:04	EMPL	OYEE NAME		PSL DEPARTMENT
LOCATION	***)		СОМ	PANY		CUSTOMER REP / PHONE
TICKET AMOUNT		Marie Company		WELL	TYPE	72	API/UWI# 5/1/1/1/
WELL LOCATION	41 F	Suh	In M	DEPA	RTMENT	3,000	JOB PURPOSE CODE
LEASE / WELL#	ě			SEC /	TWP / RNG	3-2	HES FACILITY (CLOSEST TO WELL SITE)
HES EMP NAME/E	MP # (EXPO			ES EMP NA	ME/EMP # (EX	POSURE HOU	URS) HRS HES EMP NAME/EMP # (EXPOSURE HOURS) HRS HES EMP NAME/EMP # (EXPOSURE HOURS) HRS
TIMY	,)(1	JC 4	24 E	50 S 1	21.5 2 12101.1	17663 2451	3 5h
The state of	777	157	2/2	· .,392 F.	errifis	the test mot s	
Thing!	1.15	deas	3/2	ONMO	e Doc	ee (del)	JOB DESCRIPTION/REMARKS
CHART NO.	7 28 1 F 1 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8	RATE (BPM)	VOEUME (BBL)(GAL)	T	Tbg	Csg	
	91910 (430						on Loc. NIG CAC TECH WEST. NIGHT.
	2015					2000	Ps; FAST GARPS.
	2030	6.0	12	L.		300	Pandmy Fish
		77					
	2033	6.0	12147	<u>'</u>		250	Pur 4000 Pf Lt 4t 12.25
	2002	60	28:5	U		SOO	PUM 1254 Pt 50/50 Bx 14.4
	206	0	16 -			0	Ship from Dry PIGN & wash with
	2112	6.0	66,7	- L		100	Pung flist
	2120	6.0	96,7 96,7	L		400	40 bles in cont to pop
	2124	2,5	66.7	-		650	50 bbisin sival rate
	2130	2.0	66.7	le le		17/300	Lynd Plus.
	2131	0	667 667	6		30%	seployde Most. HELD.
	213.5		66.7	المدا			jak over
							Thomas for calling HES
							TYUR JOIPPHY & CPOW
							·
Add and all the street was been discountered as a second							
			.,				
						Mary offer Mary	
						sets.	
					-	Same Mary Mary	e javide Wa
							-7



Work Order Contract,

Halliburton Energy Services, Inc. **Houston Texas 77056**

1102100

Green-Retain

TO: HALLIBURTON ENERGY SERVICES, INC. - YOU ARE HEREBY REQUESTED TO FURNISH EQUIPMENT AND SERVICE PERSONNEL TO

111000010,	D OPERATE THE SAME AS SUPPLIES AND MATERIALS	AN INDEPENDENT CONTRACTOR THE PURPOSE OF SERVICING	R TO CUSTOMER UST	ED BELOW AND DELIV	ERSONNEL TO ER AND SELL
Well No.	Farm or Lease	County H (Ske 1)		Well Permit #	
Customer		Well Owner	Job Purpo	ose	
14:46	THIS WORK	STATE ORDER MUST BE SIGNED BEFO	DE WORK 10 00 10	5	
		SUSEU MOOL DE SIGNED DELO	INE MOUK IS COMINE	:NCED	

A. CUSTOMER REPRESENTATION - Customer warrants that the well is in proper condition to receive the services, equipment, products, and materials to be supplied by Halliburton Energy Services, Inc.

PRICE AND PAYMENT – The services, equipment, products, and/or materials to be supplied hereunder are priced in accordance with Halliburton's current price list. All prices are exclusive of taxes. If Customer does not have an approved open account with Halliburton, all sums due are payable in cash at the time of performance of services or delivery of equipment, products or materials. If Customer has an approved open account, invoices are payable on the twentieth day after the date of invoice. Customer agrees to pay interest on any unpaid balance products of materials. If Customer has an approved open account, invokes are payable on the twentieth day after the date of invoke. Customer agrees to pay interest on any unpaid balance from the date payable until paid at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event Halliburton employs an attorney for collection of any account, Customer agrees to pay attorney fees of 20% of the unpaid account, or Halliburton's actual attorneys fees, whichever is greater, plus all collection and court costs. Customer agrees that the amount of attorney fees set out herein are reasonable and necessary.

RELEASE AND INDEMNITY - Customer agrees to <u>RELEASE</u> Halliburton Group from any and all liability for any and all damages whatsoever to property of any kind owned by, in the possession of, or leased by Customer and those persons and entities Customer has the ability to bind by contract or which are co-interest owners or joint ventures with Customer. Customer also agrees to DEFEND, INDEMNIFY, AND HOLD Halliburton Group HARMLESS from and against any and all liability, claims, costs, expenses, attorney fees and damages whatsoever for personal injury, illness, death, property damage and loss resulting from:

loss of well control; services to control a wild well whether underground or above the surface; reservoir or underground damage, including loss of oil, gas, other mineral substances or water; surface damage arising from underground damage; damage to or loss of the well bore; subsurface trespass or any action in the nature thereof; fire; explosion; subsurface pressure; radioactivity; and pollution and contamination and its cleanup and control.

CUSTOMER'S RELEASE, DEFENSE, INDEMNITY AND HOLD HARMLESS obligations will apply even if the liability and claims are caused by the sole, concurrent, active or passive negligence, fault, or strict liability of one or more members of the Halliburton Group, the unseaworthiness of any vessel or any defect in the data, products, supplies, materials or equipment furnished by any member or members of the Halliburton Group whether in the design, manufacture, maintenance or marketing thereof or from a failure to warn of such defect. "Halliburton Group" is defined as Halliburton Energy Services, Inc., its parent, subsidiary, and affiliated companies, insurers and subcontractors and all its/their officers, directors, employees, consultants and agents. Customer's RELEASE, DEFENSE, INDEMNITY AND HOLD HARMLESS obligations apply whether the personal injury, illness, death, property damage or loss is suffered by one or more members of the Halliburton Group, Customer, or any other person or entity. Customer agrees to support such obligations assumed herein with liability insurance with limits of not less than \$500,000. Customer agrees to name Halliburton Group as named additional insureds on all of its general liability policy(s). Customer agrees that its liability under this Contract is not limited by the amounts of its insurance coverage, except where and as may be required by applicable local law for the provisions of this Contract to be enforceable.

EQUIPMENT LIABILITY - Customer shall at its risk and expense attempt to recover any Halliburton Group equipment lost or lodged in the well. If the equipment is recovered and repairable, D. EQUITATION LIABILITY — Customes shall be to read and expense alternative to covered any mannearing croup equipment lost of longer in the well. If the equipment is not recovered or is irreparable, Customer shall pay the replacement cost, unless caused by Halliburton's caused by Halliburton's sole negligence. If a radioactive source becomes lost or lodged in the well, Customer shall meet all requirements of Section 39.15(a) of the Nuclear Regulatory Commission regulations and any other applicable sole negigence. It a tausocurve source occounts to a touged in the wen, Costomer shall be an inequirements of occurs of sold and a regulation of the recovery of abandonment efforts all at no risk or liability to Halliburton Group. Customer shall be responsible for damage to or loss of Halliburton group equipment, products, and materials while in transit aboard Customer-supplied transportation, even if such is arranged by Halliburton at Customer's request, and during loading and unloading from such transport. Customer will also pay for the repair or replacement of Halliburton group equipment damaged by corrosion or abrasion due to well effluents.

LIMITED WARRANTY - Halliburton warrants only title to the equipment, products, and materials supplied under this Contract and that same are free from defects in workmanship and materials for thirty (30) days from the date of delivery. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Halliburton's sole liability and Customer's exclusive remedy in any cause of Addition (whether in contract, tort, breach of warranty or otherwise) arising out of the sale, lease or use of any equipment, products, or materials is expressly limited to the replacement of such on their return to Halliburton or, at Halliburton's option, to the allowance to Customer of credit for the cost of such items. In no event shall Halliburton be liable for special, incidental, indirect, consequential, or punitive damages. 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 EQUIPMENT, MATERIALS, OR SERVICE, NOR THE ACCURACY OF ANY CHART INTERPRETATION, RESEARCH ANALYSIS, JOB RECOMMENDATION OR OTHER DATA FURNISHED BY HALLIBURTON GROUP. Halliburton personnel will use their best efforts in gathering such information and their best judgment in interpreting it, but Customer agrees that Halliburton Group shall not be liable for and CUSTOMER SHALL INDEMNIFY HALLIBURTON GROUP AGAINST ANY DAMAGES ARISING FROM THE USE OF SUCH INFORMATION, even if such is contributed to or caused by the active or passive negligence, fault or strict liability of any member or members of Halliburton Group. Halliburton also does not warrant the accuracy of data transmitted by electronic process, and Halliburton will not be responsible for accidental or intentional interception of such data by third parties.

GOVERNING LAW – The validity, interpretation and construction of this Contract shall be determined by the laws of the jurisdiction where the services are performed or the equipment or delivered materials a G.

DISPUTE RESOLUTION Customer and Halliburton agree that any dispute that may arise out of the performance of this Contract shall be resolved by binding arbitration by a panel of three under the rules of the American Arbitration Association. The arbitration will take place in Houston, TX.

SEVERABILITY - If any provision or part thereof of this Contract shall be held to be invalid, void, or of no effect for any reason, such holding shall not be deemed to affect the validity of the remaining provisions of this Contract which can be given effect, without the invalid provision or part thereof, and to this end, the provisions of this Contract are declared to be severable. Customer and Halliburton agree that any provision of this Contract that is unenforceable or void under applicable law will be modified to achieve the intent of the parties hereunder to the greatest extent allowed by applicable law.

I. MODIFICATION

anowed by applicable law.

MODIFICATIONS – Customer agrees that Halliburton shall not be bound by any modifications to this Contract, except where such modification is made in writing by a duly authorized executive officer of Halliburton. Requests for modifications should be directed to the Vice President - Legal, 4100 Clinton Drive, Houston, TX. 77020.

I HAVE READ AND UNDER CUSTOMER ACKNOWLEDG TO SIGN THE SAME AS CUS		CT WHICH CONTAINS RELEASE AND INDE IR AND ADEQUATE NOTICE AND I REPRESEN	MNITY LANGUAGE WHICH IT THAT I AM AUTHORIZED
	DMER Authorized Signatory	DATE: 1-29-01 TIME: 7	?: 30 A.W.P.W.
Customer Acceptance of Ma	terials and Services		
THE CUSTOMER HEREBY AC	CKNOWLEDGES RECEIPT OF THE DESCRIBED ON THE ATTACHED	CUSTOMER Authorized Signatory	
White-Office	Canary-Field Office	Pink-Customer	0

HALLIBUR						TICKET#			TICKET DA		
REGION		OB SUMMAR			ORDER NO. 70006		6141		2-12-01		
North America		NWA/COUNTRY				BDA / STATE	- []	Dia	COUNTY		
MBU ID / EMP #		EMPLOYEE NAM	/E			PSL DEPARTM	MENT	$\Upsilon H H$	1/1951	4	
PA-2201 105	1894	Row :	INGRAM			1		VAII			
LOCATION		COMPANY				CUSTOMER R			-/-		
PANDA TT; TICKET AMOUNT	***************************************	WELL TYPE	rich-P	BYL	10	API/UWI#	Paule	3/6	-272	-1125	
				•		API/UWI#					
WELL LOCATION		DEPARTMENT				JOB PURPOSE	CODE				
N-E OF SUBJET	Te Ks.	SEC/TWP/RNC				560					
Devuis 1-2			5-32W			9 6 6			***************************************		
	HOURS JURGE	1 24 - 20	5 5265								
HES EMP NAME/EMP#/(EXPOSURE	HOUNS) HAS F	IES EMP NAME/EMP#/	EXPOSURE HOUR	S) HRS	HES EMP NAME/E	MP#/(EXPOSUR	E HOURS) HR	S HES EMP NAM	/IE/EMP#/(EXPC	SURE HOURS)	
								<u> </u>			
105894											
DON CUMMINS	-			- 							
105911							į				
HES UNIT NUMBERS	R/T MILES	HES UNIT NUME	ERS R/TI	MILES	HES UNIT I	NUMBERS	R/T MILES	HES UI	NIT NUMBERS	R/T MIL	
0451-2274	230										
10447-8219	230								····	<u> </u>	
							1				
							<u> </u>	 			
orm Name Herrinston	Type:		i					<u> </u>		<u> </u>	
orm Thickness	From	To		C	ALLED OUT	ON LOCA	TION J	OB STARTED	JOB C	OMPLETED	
Packer Type	Set At	i	DATE	2-	12-01	2-12-0	1 2	-12-01	2-1:		
Bottom Hole Temp.	Pressur	re	TIME		11:00	11:3	1	•	1	-	
	Total Depth	A220 - A32 - B32 - B32 - B32						1:27	12:3	0	
TOOLS AND A	CCESSORIE	S	525 N. T.			7 2 5 W	ELL DATA				
TYPE AND SIZE	QTY	MAKE			NEW/USED	WEIGHT	SIZE	FROM	ТО	MAX ALLO	
Float Collar			Casing		N	15.5	5/2			INAX ALLC	
Float Shoe			Liner		/ /	12,5	J-2	KB_	2800	 	
Guide Shoe			Liner		 				 	-	
Centralizers	 		Tbg/D.P		 			<u> </u>			
Bottom Plug	 										
Top Plug	 		Tbg/D.P		<u></u>						
Head	+		Open Ho							SHOTS/F7	
	-		Perforati	ions				2648	2657		
Packer			Perforati	ons						1	
Other	<u> </u>		Perforati	ons					<u> </u>		
MATE!			HOURS	ON L	OCATION	OPERAT	ING HOUR	S I F	ESCRIPTIO	N OF JOB	
reat Fluid Der	nsity	Lb/Gal	DATE		HOURS	DATE	HOUR	15 1 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	and F	MA) C WIT	
isp. Fluid Der	nsity	Lb/Gal							1-2	2)6 017	
rop. TypeSize rop. TypeSize	L	0				ļ					
cid Type Gal.	Li	J				ļ					
cid Type Gal.	%						 				
ırfactant Gal.	In	1					1	_			
E Agent Gal.											
uid Loss Gal/Lt elling Agent Gal/Lt	n		 			ļ			-		
ic. Red Gal/Lt) III						 				
eakerGal/Lt) In	ı	TOTAL	දිව . ප්රේ		TOTAL					
ocking Agent	Gal/Lb	l		9.7							
rfpac Balls	Qtv.		ORDERE	D	Ţ	HYDRAULIC	HORSEPO!				
her						Avail. AVERAGE R	ATES IN DI	DKA U	sed		
her			TREATE	D	ì	Disp.	MIES IN SI		verall		
ner						CEMENT LE	FT IN PIPE	=	verall		
,	. 277.5		FEET	4444		Reason)	-			
AGE SACKS CEMEN			CEN	MENT	DATA		<u> </u>	1,00	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	eta in I. S	
CACKO CEIVIEN	BULK/S	000			ADDITIVE				YIELD		
					ped	204,000					
					LOWD	20,00	2				
						224,000	2				
						ワー					
											
rculating	Di	splacement			Preflush:	Gal -	BBI	Tv	pe		
eakdown	Ma	aximum			Load & D	ıkun: Gal-	RRI	Pa	d: BBI - Gal		
erage		ic Granient			Trantma	nt Gal-	BBI	Die	sp: BBI - Gal		
erage	/ IC	Min	15 Min			AL			sp. DDI - Gai		
erage ut In: Instant	51	Min	_ 15 Min		Cement Total Vo	Slurr Gal -	BBI		sp. bbi - Gai		

	ALLI	BUR'	TON°	JOB	l OC		ODDED NO. 700	TICKET#	TICKET DATE
REGION:					LOG IWA/COU	NTRY	ORDER NO. 700	BDA/STATE	COUNTY
	rth Ame	erica						100	Start of
MBU ID / EMP #		1115	ech d		MPLOYE	E NAME	*	PSL DEPARTMENT	
LOCATION		7		10	OMPANY	,	Mid 1	CUSTOMER REP / PHONE	
TICKET AMOUN		American	***************************************		4:11	<i>Marial</i> E	- AAyua	API / UWI #	24 16-272-1121
HCKET AMOUN	1			ľ	ELL TYP	E	e de la companya de	API / UWI #	
WELL LOCATION	N				EPARTM	ENT		JOB PURPOSE CODE	APIOINIA
LEASE / WELL #	111	10 773	a A		#i =	on in		1 6.5°	UNIOINAI
LEASE / WELL #	j	The state of		s	EC / TWP	/ RNG	****		· · · · · · · · · · · · · · · · · · ·
			OURS) HRS	HES EM	P NAME/	MD#//EVDOSII	DE HOUDS TUDS THE TAN NAM	E /END#//EVPOONEE NOVE	RS HES EMP NAME/EMP#/(EXPOSURE HOURS) H
101 2		ر المراجع المر المراجع المراجع المراج	00110) 11110	TILO LIV	I IAVIAIT'E	INIT #/(LXFOSO	NE HOUNS) HAS EMP NAM	E/EMP#/(EXPOSURE HOURS) H	HS HES EMP NAME/EMP#/(EXPOSURE HOURS) H
153		<u> </u>						<u> </u> -	

1650	13							<u> </u>	
CHART NO.	TIME	RATE	VOLUME	PUM	PS P	RESS. (psi)			
CHARLINO,	<u> </u>	(BPM)	(BBL)(GAL)	T		g Csg		JOB DESCRIPTION /	REMARKS
	11:00			$\bot \bot$			CALLED OUT		
	11:30			$\downarrow \downarrow \downarrow$			ONLOC.		
	12:00			$\perp \perp$			SAFETY me	Tive m.	AX PS: 3000
		3000		1-1	4	380			
		4600	·····	$\bot \bot$	4_	680			
	1:31			11	4	1350			
		4300		$\bot \bot$	4	2200			
	1:40		······································		4	1648			
	1:41				4	1565			
	114/8	3700	tie fall to comment op the same to proper give a dealer		<u> </u>	1390			
	1:55	n	***************************************			1289			
	1:57	3500		1		1258			
	21,05	4		Ш.		1154			
	2///	4500 4300			<u>ا</u>	1300			
	2:12	4300				1379		The state of the s	
	2:14	3300	****	6	_	1431			
	2/16	11	Monte de l'accessor de la compansa de l'accessor de la compansa de l'accessor de la compansa de l'accessor de l'accessor de l'accessor de la compansa de la c			1450	OFF live.		
	2:30						Ris down		
									^
								Pumper	204000
								Engl down	20 000
								Fumped , coeldown	224.002
								the first of the second	1,000
							/	1hauks	
					<u> </u>				
						I		Row Inger	and I
					.			- magee	
						T			
						_ '	•		
						*			
							,		
							The second secon	The state of the s	
				T					