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

perator: Lican:	5418
	ALLEN DRILLING COMPANY
Address	6565 S. Dayton, Ste 3800
	Engelwood, CO 80111
£1+4/9+;	ete/Zip
-	
rchaser:	
peretor Contact	Person: Doug Hoisington
Phone (	303, 799-6660
	ALLEN DRILLING COMPANY
License	5418
lleite Ceelesi	Rich O'Donnell
alaneta Tura	Rich O'Donnell  of Completion
signate Type (Net	of Completion  Well Re-Entry Workover  SWD SIOW Temp. Abd.
signate Type (Net	of Completion  Well Re-Entry Workover  SWD SIOW Temp. Abd.
signate Type ( X New Oil Gas	of Completion  Well Re-Entry Workover  SWD SIOW Temp. Abd.
Signate Type (Oil	of Completion  Well Re-Entry Workover  SHO SIOW Temp. Abd. ENHR SIGW Other (Core, WSW, Expl., Cathodic, etc.) Entry: old well info as follows:
Signate Type (Oil	of Completion  Well Re-Entry Workover  SHO SIOW Temp. Abd. ENHR SIGW Other (Core, WSW, Expl., Cathodic, etc.) Entry: old well info as follows:
Signate Type of X New Oil Gas X Dry  Uorkover/Re-I	SWD SIGW Temp. Abd.  SWD SIGW Temp. Abd.  ENHR SIGW Other (Core, WSW, Expl., Cathodic, etc.)  Entry: old well info as follows:
Signate Type of X New  Oil Gas X Dry  Workover/Re-I	SWD SIGW Temp. Abd.  SWD SIGW Temp. Abd.  ENHR SIGW Other (Core, WSW, Expl., Cathodic, etc.)  Entry: old well info as follows:  N/A
Signate Type of X New Oil Gas X Dry  Workover/Re-I	SWD SIGW Temp. Abd.  SWD SIGW Temp. Abd.  ENHR SIGW Other (Core, WSW, Expl., Cathodic, etc.)  Entry: old well info as follows:
Signate Type of X New York Original State of Yell Man Comp. Day	SWD SIOW Temp. Abd.  SWD SIOW Temp. Abd.  ENHR SIGW Other (Core, WSW, Expl., Cathodic, etc.  Entry: old well info as follows:  N/A  N/A  Sec Old Total Depth
Signate Type of X New X New York Operator Well Mea	SWD SIOW Temp. Abd.  SWD SIOW Temp. Abd.  ENHR SIGW Other (Core, WSW, Expl., Cathodic, etc.  Entry: old well info as follows:  N/A  N/A  Re:  Core. Core. Core. Core. to Inj/SWD
Signate Type of X New York Oil Gas X Dry  Workover/Re-I Operator Well New Yell New Y	SWD SIOW Temp. Abd.  SWD SIOW Temp. Abd.  ENHR SIGW Other (Core, WSW, Expl., Cathodic, etc.  Entry: old well info as follows:  N/A  N/A  Sec Old Total Depth
Signate Type of X New York Oil Gas X Dry  Workover/Re-I Operator Well Kam Comp. Da Deepeni Plug Br Comming Dual Co	## Completion ### Well Re-Entry Workover  ### Well Re-Entry Workover  ### SIGW Temp. Abd.  ### SIGW Temp. Abd.  ### SIGW SIGW Temp. Abd.  ### SIGW SIGW Cathodic, etc.  ### Entry: old well info as follows:  ### N/A  #### ### Old Total Depth  ### Conv. to Inj/SWD #### PBTD  #### Gled

API NO. 15- 135-23,736.0000
County Ness
N/2_SW_SE_sec. 21 Tup.20S_Rge. 23 X u
990 Feet from (S/N (circle one) Line of Section
Footages Calculated from Nearest Outside Section Corner: NE, (SE) NW or SW (circle one)
Lease Name PETERSILIE Well # 1-21
Field Name Pawnee Valley
Producing Formation D&A
Elevation: Ground 2243' KB 2256'
Total Depth 4470' PBTD
Amount of Surface Pipe Set and Cemented at 781 Feet
Multiple Stage Cementing Collar Used? YesX No
If yes, show depth set N/A Feet
If yes, show depth set Feet  If Alternate II completion, cement circulated from N/A
If Alternate II completion, cement circulated from N/A
If Alternate II completion, cement circulated from N/A  feet depth to w/ sx cmt.  Drilling Fluid Management Plan D+A 7-7-83  (Data must be collected from the Reserve Pit)
If Alternate II completion, cement circulated from N/A feet depth to w/ sx cmt.
If Alternate II completion, cement circulated from N/A  feet depth to
If Alternate II completion, cement circulated from N/A  feet depth to w/ sx cmt.  Drilling Fluid Management Plan
If Alternate II completion, cement circulated from N/A  feet depth to
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If Alternate II completion, cement circulated from N/A  feet depth to w/ sx cmt.  Drilling Fluid Management Plan

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Coloredo Decky Building, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 32-3-430, 02-3-106 and 82-3-107 apply. Information on side two of this form will be held confidential for a period of 12 wonths in recommend in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 konths). One copy of all wireline legs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST DE 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 desprishing republishments with and the statements herein are complete and correct to the best of my knowledge.

Signature Donaton	· ·
ritte Vice President	Date July 1, 1993
Subscribed and sworn to before m	this 1st day of July
Notary Public Limitha	J. Wolvy
Date Commission Expires	-17-94 U.

		_1111 ~ 6	1992
Fletter   CVire(in	OFFICE USE OMLY of Confidentiality of Log Received st Report Receive	Wichita Ka	DIVISION
KCC	DistributionSWD/Rep	NGPA	
KG <b>8</b>	Plug	Other	Λ.

(Specify)

2105 154

Operator NameA	LLEN DRI	LLING CO	MPANY	Lease	Name _		PETERSILII	E Well #	1-21		
21 22		☐ East		County			Ness			# <u></u>	
ec. <u>21</u> Twp. <u>20</u>	Rge. <u>23</u>	区 West							٠,		
MSTRUCTIONS: Show nterval tested, ti ydrostatic pressure f more space is nee	me tool open me, bottom hole	and closed, temperature	flowing a	nd shut-in	pressu	ures, wheti	her shut-in pro	SSUFE FEE	ched stat	ic leve	
rill Stem Tests Tak (Attach Additions	•	X Yes	□ No	∑ ,	.og	Formatio	n (Top), Depth	and Datum	, 🗆	Sample	
(Attach Additional	•	□ yes !	X No.	Name			Тор		Datum		
ores Taken		☐ Yes :		İ							
Lectric Log Run (Submit Copy.)		☑ <sub>Yes</sub>		i I		Se	e Attached		٠ .	م بعد المعادلة	
ist All E.Logs Run:	DIL, CD	ØDSN, CAL	,					•		7 <u></u>	
		1									
	Report		E RECORD	New C			production, et				
Purpose of String	Size Hole	Size Ca Set (In	• :	Weight Lbs./Ft.		Setting Depth	Type of Cement	# Sacks Used	Type and Addit		
Surface	12-1/4	8-5/8	"	24#		781 ¹	40/60poz	375	2%gel	3%cc	
	 					<u> </u>		     	-	uet	
			DDITIONAL	CEMENTING/S	QUEEZ	E RECORD				-	
Purpose: Perforate Protect Casing	Depth Top Botto	Type of C	ement	#Sacks Use	d	Type and Percent Additives					
Plug Back TD Plug Off Zone											
Shots Per Foot	PERFORATION Specify Foot	DM RECORD - 8 age of Each I					Fracture, Shot,			ord opth	
· ·								<u>;</u>	No.	, <u></u>	
			-		-		<del></del> -				
					-					*	
TUBING RECORD	31ze 			Packer At	į	Liner Run	☐ <sub>Yee</sub> ☐	No	. ,1	i /	
Date of First, Resu	med Production	n, SWD or Inj	.  Produc	ing Method <sub>r</sub>	] <sub>Flow</sub>	ring 🗆 Pus	ping 🗆 Gas Li	lft 🗆 ot	her (Expli	ıin)	
Estimated Productio Per 24 Hours	n Ofl	Bbls.	Gas	Hef W	ater	Bbls.	Gas-Oil	Ratio	Gr	ravity	
isposition of Gas:				HOD OF COMPI					roduction		
Vented Sold				tole Pe	rf.	Dually	Comp. Commi	ingled D <u>r</u>	y & aba	ndoned	

Tests:

Trilobite Testing L.L.C., Hays, KS. D.S.T. #1 4347'-4381' (L. Cherokee Fm.) OP15 Sl30 OP15 Sl30 recovered 10' of drilling mud; FP 36-36#/49-49#, SIP 50-60#, HP 2165-2140#.

D.S.T. #2 4347'-4391' (L. Cherokee "Basal" Sandstones) OP 15 SI30 OP15 SI30, recovered 8' of drilling mud; FP 50-52#/62-62#, SIP 216-63#, HP 2170-2150#.

Formation Log Tops

X1111411X11X11X11	8-r-4-	•
Anhydrite	1483'	(+773)
Heebner Shale	3718'	(-1462)
Toronto	3734'	(-1478)
Lansing/K.C.	3766'	(-1510)
Base/K.L.	4128'	(-1872)
Pawnee	4218'	(-1962)
Labette Shale	4287'	(-2031)
Ft. Scott	4293'	(-2037)
Cherokee Shale	4318'	(-2062)
Basal Cherokee Sandstone	4382'	(-2126)
Mississippian	4406'	(-2150)

RECEIVED STATE CORPORATION COMMISSION

JUL - 6 1993

CONSERVATION DIVISION Wichita, Kansas



FORM 1908 R-7

DISTRICT

## WORK ORDER CONTRACT AND PRE-TREATMENT DATA

A Division of Halliburton Company

ATTACH TO INVOICE & TICKET NO

то	: -	HALLIBURTON SERVICES YOU ARE HEREBY REQUI	ESTED TO FL	JRNISH E	QUIPMENT A	ND SERVI	CEMEN TO	DELIVER A	ND OPERATE
		THE SAME AS AN INDEPENDENT CONTRACTOR TO:	· Dela	- C	<u>c.                                      </u>				
		AND DELIVER AND SELL PRODUCTS, SUPPLIES, AND MATERIALS FOR	THE PURPOSE	OF SERVI	CING	ER)			
		Λ.							
WE	ELL	NO LEASE	<del>.</del>	SEC	21	TWP	<u> 20 </u>	RAI	NGE 2361
		1						4	
FIE	LD	county <u>July 5.5</u> state	TE	<u>5</u>	OWNED	BY <b>SA</b> (	<u> </u>	ŕ	
_		THE FOLLOWING INFORMATION WAS	FURNISHE		E CUSTO!	MER OR H	IIS AGEN	IT '15'	
FO NA		ATION TYPE		NEW USED	WEIGHT	SIZE	FROM	то 🚻	i, MAX. ALLOW P.S.I.
FO	RM/	ATION NESS FROM TO	CASING	ń)	Au	85/	KB	784	
		R: TYPE SET AT	LINER		V ( - )	3 2 8		31,	,
		DEPTH MUD WEIGHT	TUBING				1	1 4 (*)	1.5
			OPEN HOLE			12'14	784	786	SHOTS/FT.
		HOLE	PERFORATION	 ONS	<del></del>	1 2 1		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	r
		FROD: OIL BPD, H₂O BPD, GAS MCF	PERFORATION	DNS				7.	:
PRI	.SE	NT PROD: OILBPD, H₂OBPD, GASMCF	PERFORATION	ONS				r <sub>x</sub> ál	
			H	··		<u> </u>	<u> </u>	;	
PRI	EVIC	DUS TREATMENT: DATE	TUBING	MANUTAL OF	MATERIAL	S	VED ODDED	FD :	· · · · · · · · · · · · · · · · · · ·
, , , ,	L/\.	MENT INSTRUCTIONS: TREAT TARO TOBING II ANNULUS II CASING	DE TOBING/AL	NINULUS L	HIDRAULIC	HURSEPUV	VER URUER	ED	
		•							
_		- Set Surface Ca	<u>s/~ &lt;</u>	: 4	132	55K	40	0/60	1003 T
_					2/	20	<u>).</u> 1		
					3-7	سر س نود			* 1
CU	STC	MER OR HIS AGENT WARRANTS THE WELL IS IN PROPER CONDITION I	TO RECEIVE TH	HE PRODUC	TS, SUPPLIE	S, MATERIA	LS, AND SE	RVICES 63	(a) 中 (4) (中國)
_	As c	onsideration, the above-named Customer agrees: THIS CONTRACT MUST BE SIG	GNED BEFORE W	ORK IS COMM	IENCED			)	1 (1)
	a)	To pay Halliburton in accord with the rates and terms stated in Halliburton's current price	list. Invoices are r	avable NET b	ov the 20th of th	ne followina mo	nth after date	، در 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 but nover to exceed 18% per annum. In the event it becomes necessary to employ alterney of 20% of the amount of the unpaid account,	ne invoice is dated, ys to enforce colle	Customer agn ction of said a	ees to pay interescipount, Custome	st thereon after er agrees to pay	default at the all collection	costs and attorne	ry fees in the amount
	b)	to celend, indemnify, release and hold harmless Halliburton, its divisions, subsidiaries, parent any claims, liability, expenses, aftorneys fees, and costs of defense to the extent permitted by	t and affiliated con	npanies and th	ne officers, direc	lors, employees,	agents and se		
•		<ol> <li>Damage to property owned by, in the possession of, or leased by Customer, and/or "well owner" shall include working and royalty interest owners.</li> </ol>		different from	Customer), incl	uding, but not li	mited to, surfa	ce and subsurfa	ce damage. The term
		Reservoir, formation, or well loss or damage, subsurface trespass or any action in the number of the subsurface trespass or any action in the subsurface trespace trespass or any action in the subsurface trespass or any action in the subsurface trespass or action in the subsurface trespace trespa	ature thereof.						
		<ol> <li>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</li> </ol>	ne reservoir, formal	tion or well), o	rany damages v	vhalsoever, grov	wing out of or i	n any way conne	cted with or resulting
		The defense, indemnity, release and hold harmless obligations of Customer provided for in the			low shall apply t	to claims or liab	dity even if car	e, (	ed to by Holliburton's
		negligence, strict liability, or the unseaworthiness of any vessel owned, operated, or turnic 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 misco subsidiaries, parent and affiliated companies, and the officers, directors, employees, agents an	shed by Halliburto warn any person anduct of Halliburto	n or any defe of such defection. The term "	ct in the data, r t. Such defense.	products, supplic indemnity, refe	es, materials, o ase and hold h	r equipment of hearmless obtigation	falliburton whether in ons of Customer shall lliburton, its divisions;
1	c)	That because of the uncertainty of variable well conditions and the necessity of relying on its supplies or materials, nor the results of any treatment or service, nor the accuracy of any challenges their best efforts in gathering such information and their best judgment in interpret any damages arising from the use of such information.	hart interpretation,	research analy	sis, job recomm	endation or othe	er data furnishe	ntee the effective ed by Halliburton.	ness of the products, Halliburton personnel
	<b>d)</b>	That Halliburton warrants only title to the products, supplies and materials and that the sa	ame are free from	defects in w	orkmanshin and	materials THFF	RE ARE NO W	ARRANTIES EX	PRESS OR IMPLIED
		OF 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 or materials on their return to Halliburton or, at Halliburton's option, to the allowance to the	ATED IN THE IMM e safe or use of are customer of crea	EDIATELY PRI ny producta, su dit for the cos	ECEDING SENTI upplies or material t of such items.	ENCE. Haliiburt als is expressly In no event sha	on's liability an limited to the r Ill Halliburton b	d Customer's exc eplacement of su e liable for Khedi	clusive remedy in any ich products, supplies al. incidental indirect.
1	e)	punitive or consequential damages.  That Customer shall, at its risk and expense, attempt to recover any Halliburton equipment, to 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 Halliburton to the landing, unless such loss or damage is caused by the sole negligence of Hallib	cols or instruments of Halliburton, If He	s which are los	st in the well and	if such equipm	ent, loois os im	ton energy liquid	recovered, Customer
	1)	To waive the provisions of the Deceptive Trade Practices - Consumer Protection Act, to the ex-	ktent permitted by I	law.			JUL	, e ,	
	g)	That this contract shall be governed by the law of the state where services are performed or	materials are furni	shed.			. Jaguanett	VATION DIVE	
l	n)	That this contract shall be governed by the law of the state where services are performed or That Halliburton shall not be bound by any changes or modifications in this contract, except we have the contract of the contract	vnere such change	or modification	n is made in writi READ AND DIND	ng by a duly au ERSTAND THIS	thorized'execui W ( CONTRACT A	NO REPRESENT	iourton.
		· · · · · · · · · · · · · · · · · · ·		THAT	M AUTHORIZED	TO SIGN THE	SAME AS CUS	TOMER'S AGEN	

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.

CUSTOMER

SIGNED

JOB LOG

FORM 2013 R-2

WELL NO. 1-2/ LEASE 1911/25/210 TICKET NO. 311957

CUSTOMER ALLEN DESILING Co.

PRESSURE (PSI) DESCRIPTION OF OPERATION AND MATERIALS TUBING Courd Out 0400 On Loc. AT Requested Time 0530 Ry FINIER DRIG. STHAT CALLY Carry on BOTTOM BOLAK CIRCULATION 19:11 5.5 0 ST. CLONVINT 40 FINISH CLORISHT 86.8 RELEUSE PLUG 19:32 O Ping down Sing in Well 12:40 48,4 When! PHINUP THE Tors Clamptote PLUGE 161 RECEIVED HOURS YOU

SUMMARY

HALLIBURTON NEW CONTRACTOR

TICKET NO. 311967

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FIELD		<u>.</u>		_sec <u>\</u> \_\	TWP	O_RNG. 2		COUNTY	NESS		STA1	<u> </u>	
FORMATIC	N NAME	<del></del>	TYP	E			NEW USED	WEIGHT	SIZE	FROM	т	· \	MAXIMUM PS ALLOWABLE
FORMATIC	N THICKNESS.	<del></del>	FROM	, 10	0636	CASING	N	1.4	8/8	KB	78,	4	
INITIAL PF		BPD, WATER_				LINER					<u> </u>		
PRESENT F	ROD: OIL	BPD. WATER_		GAS	MCFE	TUBING					<u> </u>		
COMPLETE	ON DATE	MUD TY	PE	MUD WT		OPEN HOLE			1279	181	138	3	SHOTS/FT.
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воттом н	OLE TEMP		PRESSURE			PERFORATIO	NS						
MISC, DATA	۸ <u>. '</u>		TOTAL	DEPTH		PERFORATIO	NS						
					JOB	DATA							_
		TOOLS AND AC	CESSORIES	<del>-</del>		CALLED OUT	_	ON LOCA	_	JOB STARTED	_		OMPLETED
	TYPE AN	NC SIZE	оту.	МА	AKE .	DATE O	1.45	DATE D	- 1	DATE 6	7	DATE	6.9
LOAT CO	LLAR					TIME (53)	00	TIME (	> 230	TIME	11-	TIME	1320
LOAT SHO	DE .	,						PERS	ONNEL AN	D SERVICE	UNITS		
SUIDE SHO	DE							NAME		UNIT NO. &			LOCATION
CENTRAL	ERS					T. 4839	ب	<b>3</b> -	11010	BICK !	) <del> </del>  5		
оттом Р	LUG					الملك	Sep. 1.0		<u> [[[[]</u>	3960	31.4	NES	<u> </u>
TOP PLUG	100 Cal	V (V)	1	1155	<u> 35 (3</u>					SIM			
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PACKER										ジンドヤ			
THER						0 00	Q.DAT	2 0	2013	माहका <u>ग</u>	106	31114	5, KS
		MATER	IALS										-
REAT. FLL	JID		DENSITY		O LB/GAL,-API					1			•
DISPL. FLU			DENISTY		O LB/GAL API							-	
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ROP, TYPE		SIZE		LB									-
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CID TYPE				%									
CID TYPE				%									
						DEPARTMENT	<b>(</b> );	MWT					
NE AGENT				IN		. DESCRIPTION		្ត ដូ	1x 5	10 FALL			
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	GENT TYPE	•	·L6	IN									
RIC. RED.	AGENT TYPE_		LB	IN									
REAKER T	YPE	GAL	LB	IN		JOB DONE TH	IRU; TI	ЈВІИС, 🔲	,	ing 🕡	ANNULU	s 🔲	TBG/ANN,
LOCKING	AGENT TYPE_			AL,-LB				. 1.0	150				
	ALLS TYPE			TY.		CUSTOMER REPRESENTA	<sub>iive</sub> X		15				<del></del> -
THER								1 7	6-7	<i>E</i>			
THER						HALLIBURTON OPERATOR	· [~	Eddorf-	6 W.	/ (	COPIE REQUI		
	<del></del>	T		<del></del>	CEME	NT DATA		A STATE OF THE STA					
STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK	-	7	ADDIT	IVES				ELD T./SK,	MIXED LBS/GAL.
	375	4095 203	30755 CV	RA	70 611	37.56	_				1 3	62	12.96
			1			<del>}</del>	•				-		- <del> </del>
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RCULATII	NG		DISPLACEMENT			PRESLUSH: BOL	GAL	<del></del> -	<del></del>	ECENEL	U VOXANAS	ROIS	
REAKDOW	/N	<del></del> -	MAXIMUM			LOAD & BKDN;	BBLGA	L	TATE	PAD	BBL-G	AL	
VERAGE.		FRAC	TURE GRADIENT_			TREATMENT: BE	BLGAL		210.	DIS	<b>CED</b> 9	GAL.	18.4
HUT4N; IN	STANT	5-MIN		_15-MIN		CEMENT SLURR	( BB)	au <u>}}</u> (5	-B11	11 - 6 1	77-6		
		HYDRAULIC HO	KSEPOWER			TOTAL VOLUME:	BBL-G	AL					
RDERED	<u>·</u>	AVAILABLE AVERAGE RAT	FG IN BDM	_USED			_		REMA	ENVATION D	IVISION		
		ATERMOE RAII				LATOL	6:3	<u>;</u> = ] ':	36 CONS	Mishita Kan	sas		· · · · · · · · · · · · · · · · · · ·
REATING_	<del></del>	DISPL		VERALL				<del>-</del>					<del> </del>
	٠, <sup>ب</sup>	CEMENT LEF		√.یە			<u> </u>	<u> </u>					
EE.T	$-4\mathbb{Z}$	REASON	REQUES	<u> </u>			•	•	<del></del>		_		



11CKE1 No. 311969 9

A Division of Halliburton Company

FORM 1906 R-11	_										Ten. e	
WELL NOFARM OF	LEASE NAME			COUNTY	ST	ATE	CITY / OFF	SHORE LOCAT	ЮИ		DATE:	. 37
CHARGE TO	<u> </u>	1		11:00 3 3	- CHARLED	K5		lnere	TYPEIC	HECK ONE)	MITROG	33
CHARGE TO	0 1 -	r:			OWNER	_			nce 🕅	SALES	YES T	
ADDRESS	1 11/19	(F)	<u>Ca</u>		CONTRACTOR	C C - 123			OCATION	34023	CODE	<u>~[</u>
					6.6	Tool	-7	10	2066	citu	25.5	7-3
CITY, STATE, ZIP	-	,		•	SHIPPED VIA		HT CHARC	SES 7L	OCATION	1	CODE	1 6
April 1998	lucu our	10 Pd /		Incl. penareno	DELIVERED TO	<i>ç</i> ?   _	PPD	<del></del>	1742	Χ×	7227	<u>5</u>
WELL TYPE	WELL CATE	ORY		WELL PERMIT NO.				3	OCATION	Ì	CODE	
TYPE AND PURPOSE	OF JOB				ORDER NO.	a her			RRAL LO	CATION	freds to the t	- 10 di
010				B-155 468				İ		-		1 17
As consideration of invoice, Upon Cu	on, the above-named Custon ustomer's default in paymen a anglicable, but never to ax	ner age t of Ci cond 1	roes to pay Ha istomer's acco	lliburton in accord with the rates and te unt by the last day of the month follow, in the event it becomes necessary to e se terms and conditions shall be governed	ms stated in Halli ing the month in s	burton's current pr which the invoice is	ice lists. Investigation of sold a	ces payable NE tomor agrees to	T by the pay biters	20th of the fo	flowing month after for default at the his	date prost
fees in the amount	of 20% of the amount of the prents only title to the prod	unpai	d account. The	se terms and conditions shall be governe terials and that the same are free from d	d by the law of the	o state where servi	ces are perfo THERE ARE	med or equipm NO WARRANT	ent or mat	orabi are fum ESS OR IMPLI	ished. ED, OF MERCHANTA	BILITY
(whether in contract, on their return to Ha' damages.	tort, product liability, breac liburton or, at Halliburton's	option	arranty or oth	terials and combinous and the front of terials and that the same are free front of END BEYOND THOSE STATED IN THE IN- erwise) arising out of the sale or use of ance to the customer of credit for the	any products, su cost of such items	pplies or materials s. In no event shall	is expressly Halliburton	limited to the r be liable for sp	eplacemer ecial, incid	nt of such pro- fontal, indirec	ducts, supplies or n	natorials (1)
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CUSTOMER

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HALLIBURTON SERVICES
Dation, Otherone 7358

A Division of Hallburton Company

## AND TICKET CONTINUATION

FOR INVOICE AND 3//969

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## HALLIBURTON SERVICES

WORK ORDER CONTRACT AND PRE-TREATMENT DATA

ATTACH TO	•	367/12
INVOICE & TICKET NO.	_	36711X

FORM	4000	n -	
FORM	1908	H-7	

A Division of Halliburton Company

DISTR	ст Науч В					DATE	16.93	
TO:	HALLIBURTON SERVICES YOU ARE HEREBY REQU	ESTED TO F	URNISH EQ	QUIPMENT A	ND SERVI	CEMEN TO D	ELIVER AF	ND OPERATE
	THE SAME AS AN INDEPENDENT CONTRACTOR TO:	h. Co.						<u> </u>
	AND DELIVER AND SELL PRODUCTS, SUPPLIES, AND MATERIALS FOR	THE PURPOSE	OF SERVI	(CUSTOM CING	ER)			
WELL	NO. 1-21 LEASE Princilly		SEC	21	_ TWP	303	RAI	IGE _23₩
FIELD	COUNTY MGS	TE A		OWNED	BY S	i m (*		
	THE FOLLOWING INFORMATION WAS		D BY TH			IIS AGENT		
FORM/ NAME		<u> </u>	NEW USED	WEIGHT	SIZE	FROM	το	MAX, ALLOW. P.S.I.
FORM.		CASING			\ 			
PACKE	R: TYPE SET AT	LINER			_			
TOTAL	DEPTH 4470 MUD WEIGHT	TUBING						
BORE	HOLE	OPEN HOLE	<u> </u>					SHOTS/FT.
	_ PROD: OILBPD, H₂OBPD, GASMCF	PERFORATI	ons					3
	NT PROD: OIL BPD, H₂O BPD, GAS MCF	PERFORATI	ons				-	-
TRESE	N1 FROD. OIL DI D, 1120 DI D, GAS MCI	PERFORATI	ons .					
PREVIO	DUS TREATMENT: DATE TYPE	<u> </u>		MATERIALS	·			
	MENT INSTRUCTIONS: TREAT THRU TUBING ANNULUS CASING		4 14		<u> </u>	WER ORDERE	D	
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-	ONSIDER OR HIS AGENT WARRANTS THE WELL IS IN PROPER CONDITION OF THIS CONTRACT MUST BE SIX OF THIS CONT				S, MATERIA	LS, AND SER	WICES	
a)	onsideration, the above-named Customer agrees: IHIS CONTRACT MUST BE Sit To pay fallibution 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 it but never to exceed 18% per annum. In the event it becomes necessary to employ attorne	list, Invoices are he invoice is dated	payable NET t	by the 20th of the	st thereon afte	r default at the hi	ghest lawfut cor	ntract rate applicable,*
. b)	or 20% of the amount of the unpaid account.  To detend, indemnify, release and hold harmless Halliburton, its divisions, subsidiaries, paren	t and affiliated co.				•		
	any chims, liability, expenses, alterneys fees, and costs of defense to the extent permitted by  t. Damage to property owned by, in the possession of, or leased by Customer, and/or	y law for;	,			_		1 - gr
	"well owner" shall include working and royally interest owners.  2. Reservoir, formation, or well loss or damage, subsurface trespass or any action in the n	•		,,	<b>.</b>			, , , , , , , , , , , , , , , , , , ,
	3 Personal injury or death or property damage (including, but not finited to, damage to the from pollution, subsurface pressure, losing control of the well and/or a well blowout or the subsurface pressure.	he reservoir, forma	ition or well), o	r any damages v	hatsoever, gro	wing out of or in	any way conne	cted with or resulting
	The defense, indemnity, release and hold harmless obligations of Customer provided for in negligence, strict liability, or the unscravorthiness of any vessel owned, operated, or furnithe preparation, design, manufacture, distribution, or marketing thereof, or from a taiture 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 at	this Section b) and ished by Halliburto warn any person onduct of Halliburt	f Section c) be on or any defe of such defection. The term	ect in the data, p et. Such defense.	roducts, suppli Indomnity, rele	es, materials, or ease and hold har	equipment of H	lalliburton whether in the state of Customer shall liburton, its divisions,
c)	That because of the uncertainty of variable well conditions and the necessity of relying on I supplies or materials, nor the results of any treatment or service, nor the accuracy of any c will 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	ng services fun	roin lob ronnerm	adalian or oth	or data furniched	but Malliburton	Halliburtan namanaat 😯
d)	any danages arising from the use or soor mormation.  That Halifburton warrants only little to the products, supplies and materials and that the s  OF 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 or materials on their return to Halliburton or, at Halliburton's option, to the allowance to the punitive or consequential damages.	TATED IN THE IMA ie sale or use of a	MEDIATELY PR Inv. products, 61	ECEDING SENTI upplies or materia	ENCE. Hallibur uls is expressiv	ton's liability and I limited to the rei	Customer's excolacement of su	lusive remedy in any
eł	That Customer shall, at its risk and expense, attempt to recover any Halliburton equipment, shall pay Halliburton its replacement cost unless such loss is due to the sole negligence of the Insert 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 returned to the landing, unless such loss or damage is caused by the sole negligence of Hallii	alliburton's equipm			occurs at an	y time after deliv		
f)	To waive the provisions of the Deceptive Trade Practices - Consumer Protection Act, to the ex-		-	111	1 - 6 1	993	(4)	
p)	That this contract shall be governed by the law of the state where services are performed or That Halliburton shall not be bound by any changes or modifications in this contract, except with the state of the stat			n is made in writi	ng by a dulynat	JANE 100 Axecutiv	e officer of Hali	burton.
	That Halliburton shall not be bound by any changes or modifications in this contract, except $\dot{\mathbf{v}}$		HAVE THAT LA	READ AMEDILED M AUTHORIZED	TOTAL MOISTERS	SCANTRACT AN	D REPRESENT OMER'S AGEN	1. 《李字》
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	÷	DATE	<u> </u>	6-1	16.0	TOMER	1	्रा 
	ily that the Fair Labor Standards Act of 1938, as amended, has been complied with on of goods and/or with respect to services furnished under this contract.	in the		/ .~ A.M	. P.M.	, <del></del>	<i>₹</i> '	

**CUSTOMER** 

TIME \_\_\_\_\_ A.M. P.M.

J	OB LO	G		CUST	OMER.					
FORM 2013 R-2					TYPE_	Plan	. Als.	PAGE NO	3	
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LEASE 1811 1110 TICKET NO. 361111x -

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TICKET NO. 367112-9

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CUSTOMER

## HALLIBURTON SERVICES

# AND TICKET CONTINUATION

FOR INVOICE AND 367112

DATE 6-16-93	CUSTOMER ORDER	ON F	<del>-</del>	k	WELL NO. AND FARM Petersille #	 1-2 <u>1</u>		Nes				STAT	Kans M <b>X</b> MX	88 X
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1333 W. 120th Ave., Suite 310 Westminster, CO 80234 (303) 451-0175

Well Summary

Well Summary:

Allen Drilling Company

#1-21 Petersilie

Location:

N/2 SW SE Sec. 21 T20S-R23W

Ness County, Kansas

Elevation:

2243 G.L. 2256 K.B.

Contractor:

Allen Drilling Company - Rig No. 5

Spud Date:

06/09/93

Completion Date:

06/16/93

Bits:

Bit #1 12 1/4" Reed RT 0'-560' Smith Bit #2 12 1/4" RT 560'-782' Bit #3 7 7/8" Security S84CF 782'-3535' Bit #4 7 7/8" Reed HP52 RR 3535'-4470'

Cores:

None

Tests:

Trilobite Testing L.L.C., Hays, KS.

D.S.T. #1 4347'-4381' (L. Cherokee Fm.) OP15 SI30 OP15 SI30

recovered 10' of drilling mud; FP 36-36#/49-49#, SIP 50-60#, HP 2165-

2140#.

D.S.T. #2 4347'-4391' (L. Cherokee "Basal" Sandstones) OP 15 SI30 OP15 SI30, recovered 8' of drilling mud; FP 50-52#/62-62#, SIP 216-

63#, HP 2170-2150#.

Deviations:

1621' - 1 • 2678' - 1/2 • 3736' - 3/4 • 4470' - 3/4 •

Logs:

Halliburton Logging Services, Great Bend, KS; Dual Induction Laterlog -

Compensated Density Dual Spaced Neutron Log

Mud:

Mud Systems, Inc., Great Bend, KS.

Status:

Dry Hole

RECEIVED

STATE PRODUCTION COMMISSION

IIIL - 6 1993

JUL CONSERVATION DIVISION Wichita, Kansas

## Chronological Log

06/08/93	Move Allen Rig #5 in and rig up. Spud 12 1/4" surface hole @ 9:00 pm
06/09/93	At 7:00 am: Drilling 12 1/4" hole @ 629'. Drill to 12 1/4" T.D. @ 782'. Run 18 5ts. (784') New 8 5/8" 24# Surface Casing. Set @ 781' w/ 375 sx. 40/60 poz, 2% Gel, 3% CC by Halliburton. Cement did circulate. Plug down @ 12:45 pm. Drill plug @ 8:45 pm.
06/10/93	At 7:00 am: Drilling @ 1545'.
06/11/93	At 7:00 am: Drilling @ 2590'.
06/12/93	At 7:00 am: Drilling @ 3225'. Displace mud @ 3500'. Bit trip @ 3535'.
06/13/93	At 7:00 am: Drilling @ 3730'
06/14/93	At 7:00 am: Drilling @ 4193'. Drill to 4381'. Prepare to run D.S.T. #1, 4347'-4381'.
06/15/93	Run D.S.T. #1 At 7:00 am: Tripping out of hole w/ D.S.T. #1. Prepare for and run D.S.T. #2, 4347'-4391'.
06/16/93	Drill to R.T.D. @ 4470'. Condition hole and run open hole logs. Decision made to plug and abandon. Rig released at approximately 12:15 pm.

Formation Lo	g Tops	Ĺ
Anhydrite	1483'	(+773)
Heebner Shale	3718'	(-1462)
Toronto	3734'	(-1478)
Lansing/K.C.	3766'	(-1510)
Base/K.L.	4128'	(-1872)
Pawnee	4218'	(-1962)
Labette Shale	4287'	(-2031)
Ft. Scott	4293'	(-2037)
Cherokee Shale	4318'	(-2062)
Basal Cherokee Sandstone	4382'	(-2126)
Mississippian	4406'	(-2150)

## Sample Description

Note: Samples were examined wet, logged back on drilling time and corrected for log tops.

## Lanes of Interest:

## Hoebner Shale 3718' (-1462)

Shale, black, carbonaceous; soft, firm, platy, fissile.

#### Toronto 3734' (-1478)

Limestone, white, microcrystalline to crystalline, gd. intercrystalline porosity; v. chalky, pr. permeability. No show.

### Lansing-Kansas City 3766' (-1510)

3766'-82':

Limestone, It. buff, crystalline, fr-gd. intercrystalline porosity, fossil,

ferrous; cherty in part. No show.

3789'-3805':

Limestone, it. buff, crystalline, gd. porosity, fossil, ferrous. No show.

3810'-38':

Limestone, It. buff to cream. macrocrystalline, gd. intercrystalline

porosity, scattered micro-vugular porosity. No show.

3842'-56':

Limestone, It. buff, microcrystalline, dense. No show.

3860'-78':

Limestone, buff to it. tan, microcrystalline; dense, pr. porosity decreasing

through section; v. cherty. No show.

3880'-3902':

Limestone, white to It. buff, microcrystalline, pr. porosity; cherty in part

3904'-10':

Limestone, lt. buff, crystalline, sucrosic; fossiliferous, gd. intercrystalline

porosity. No show.

3916'-29':

Limestone, It.buff, microcrystalline, v. dense; chalky, pr. permeability.

No show.

3943'-59':

Limestone, It. buff, crystalline, cherty, dense, v. tight. No show.

3968'-84':

Limestone, white to It. buff, v. chalky, pr. permeability. No show.

3986'-98':

Limestone, lt. buff, microcrystalline, dense, tight. No show.

4002'-4014': Limestone, white, crystalline, colicastic, fossiliferous. No show.

4017'-4026': Limestone, white microcrystalline to crystalline, fossilferous; chalky,

dense. No show.

4036'-43':

Limestone, buff, crystalline; pr. - fr. intercrystalline porosity. No show.

4046'-50':

Limestone, It. buff, crystalline, pr-fr. intercrystalline porosity; v. chalky.

No show.

4070'-75':

Limestone, lt. buff, crystalline, colitic; chalky, cherty in part. No show.

4078'-97':

Limestone, lt. buff, crystalline, fr. oolic porosity @ top; chalky, cherty.

dense @ base. No show.

4100'-12':

Limestone, It. buff, microcrystalline, dense, cherty. No show.

4118'-26':

Limestone, It. buff, microcrystalline, v. dense, cherty. No show.

### Pawnee 4218' (-1962)

Limestone. grey, v.microcrystalline, argillaceous, chalky, dense; becoming cherty at base. No show.

### Labette Shale 4287' (-2031)

Shale, black, carbonaceous, firm, blocky.

#### Ft. Scott 4293' (-2037)

Limestone, lt. buff, crystalline, fossiliferous-coralline; chalky; v. pr. perm; spotted stain, brt. fluorescence, no cut; no odor.

### Cherokee Shale 4318' (-2062)

Shale, reddish-brown, v. soft, platy, fissile.

#### Basal Cherokee Sandstone 4382' (-2126)

Sandstone, white, v. fine grained, quartz, sub-angular, fr. sorting, friable in part; pr. fr. porosity & permeability; v. glauconitic, chlorotic (increasing through section); calcareous cement; chalky @ v. base.

4382'-94':

Gd. to v. gd. show of Free oil & stain; Fluorescence, gd. slow milky cut;

fr. to gd. odor.

Tested by D.S.T.'s #1 & #2.

4394'-4403': Sandstone as above, no show.

#### Mississippian 4406' (-2150)

4406'-20':

Chert, pearl white, v. dense, tight. No show.

4422'-48':

Chert, buff, opaque, v. dense, tight. No show.

4458'-70':

Chert, white to lt. buff opaque, v. dense, tight. No show.

The #1-21 Petersilie test well is structurally 33' low to D.C. Slawson's #1-A Petersilie well approximately 1320' to the southwest (SE SW Sec. 21). Sandstone development, although 21' in thickness, was of poor reservoir quality as proven by the D.S.T.'s and confirmed by the open hole logs. There were no other significant shows of oil in the #1-21 Petersilie test well. As a result, it was decided by all parties to plug and abandon this test.

Respectfully submitted,

Richard P. O'Donnell Petroleum Geologist

Sheets Oil Company

(303) 451-0175