STATE CORPORATION COMMISSION OF KANSAS OIL & GAS CONSERVATION DIVISION	API NO. 15- 077-213470000
WELL COMPLETION FORM ACD-1 WELL HISTORY	County Harper plugged 1/18/98
DESCRIPTION OF WELL AND CRASE GINA	- SW - NE - NE Sec. 8 Twp. 33S Rge. 9 X
Operator: License # 3080 CITIOTIVAL	950 Feet from S/N/(circle one) Line of Section
Name: Jack Exploration, Inc.	850 Feet from (E)W (circle one) Line of Section
Address P.O. Box 1279	Footages Calculated from Nearest Outside Section Corner:  (E), SE, NW or SW (circle one)
Sulphur, OK 73086	Lease Name Zimmerman Well # 1-8
Purchasen: Anna cantages deasons no te	Fird Name WC
Operator Contact Person ( ) James R. Jack	Producing Formation NA
Sphone (580) 3/622-2310	{Elevation: Ground 1361 KB 1372
Contractor: Name: Allen Drilling	Total Depth 3761 PBTD
License: 5418	Amount of Surface Pipe Set and Cemented at 270
	Multiple Stage Cementing Collar Used?YesX
Designate Type of Completion	If yes, show depth set
	If Alternate II completion, cement circulated from
OilSWDSIOWTemp. Abd.	feet depth to w/ sx cm
Gas ENHR SIGW Other (Core, WSW, Expl., Cathodic, etc)	
f Workover/Re-Entry: old well info as follows:	(Data must be collected from the Reserve Pit)
Operator:	Chloride content $4000$ ppm Fluid volume $700$ bb
	Dewetering method used <u>Evaporation</u>
Comp. Date Old Total Depth	Location of fluid disposal if hauled offsite:
Deepening Re-perf Conv. to Inj/SWD PBTD Commingled Docket No.	   Open wor Name <u>Oil Producers Inc.</u> of Kansas
Dual Completion Docket No.	Lease Name Watson License No. 8061 -
Other (SWD or Inj?) Docket No.	SW Quarter Sec. 8 Twp.29S S Rng. 15 E/W
1/15/98 1/18/98 1/18/98 pud Date	-
	County <u>Barber</u> Docket No. <u>D-24324</u>
INSTRUCTIONS: An original and two copies of this form shall Derby Building, Wichita, Kansas 67202, within 120 days of	he filed with the Years Comments and I have
12 months if requested in writing and submitted with the months). One copy of <u>all</u> wireline logs and geologist well,	the spud date, recompletion, workover or conversion of a well, side two of this form will be held confidential for a period of form (see rule 82-3-107 for confidentiality in excess of 12 report shall be attached with this form. ALL CEMENTING TICKETS also Submit CP-111 form with all temporarily abandoned wells.
12 months if requested in writing and submitted with the months). One copy of <u>all</u> wireline logs and geologist well results and submit of the	the spud date, recompletion, workover or conversion of a well side two of this form will be held confidential for a period or form (see rule 82-3-107 for confidentiality in excess of 12 report shall be attached with this form. ALL CEMENTING TICKETS als. Submit CP-111 form with all temporarily abandoned wells.
12 months if requested in writing and submitted with the months). One copy of <u>all</u> wireline logs and geologist well results. Submit CP-4 form with all plugged well requirements of the statutes, rules and regulations promule ith and the statements herein are complete and correct to the	the spud date, recompletion, workover or conversion of a well side two of this form will be held confidential for a period or form (see rule 82-3-107 for confidentiality in excess of 12 report shall be attached with this form. ALL CEMENTING TICKETS its. Submit CP-111 form with all temporarily abandoned wells.  Gated to regulate the oil and gas industry have been fully complicate best of my knowledge.
12 months if requested in writing and submitted with the months). One copy of <u>ail</u> wireline logs and geologist well results. Submit CP-4 form with all plugged well requirements of the statutes, rules and regulations promule ith and the statements herein are complete and correct to the signature	the spud date, recompletion, workover or conversion of a well side two of this form will be held confidential for a period or form (see rule 82-3-107 for confidentiality in excess of 12 report shall be attached with this form. ALL CEMENTING TICKETS als. Submit CP-111 form with all temporarily abandoned wells.  Gated to regulate the oil and gas industry have been fully complicate best of my knowledge.  K.C.C. OFFICE USE ONLY  Lester of Confidentiality.Attached
12 months if requested in writing and submitted with the months). One copy of <u>all</u> wireline logs and geologist well results. Submit CP-4 form with all plugged well requirements of the statutes, rules and regulations promule ith and the statements herein are complete and correct to the signature	the spud date, recompletion, workover or conversion of a well, side two of this form will be held confidential for a period or form (see rule 82-3-107 for confidentiality in excess of 12 report shall be attached with this form. ALL CEMENTING TICKETS als. Submit CP-111 form with all temporarily abandoned wells.  Gated to regulate the oil and gas industry have been fully complicate best of my knowledge.  K.C.C., OFFICE USE ONLY Letter of Confidentiality, Attached C Geologist Report Received  EAN 30 1909
12 months if requested in writing and submitted with the months). One copy of all wireline logs and geologist well result of the statutes, rules and regulations promult the and the statements herein are complete and correct to the statute of the statutes	the spud date, recompletion, workover or conversion of a well, side two of this form will be held confidential for a period or form (see rule 82-3-107 for confidentiality in excess of 12 report shall be attached with this form. ALL CEMENTING TICKETS als. Submit CP-111 form with all temporarily abandoned wells.  Gated to regulate the oil and gas industry have been fully complice best of my knowledge.  K.C.C., OFFICE USE ONLY Letter of Confidentiality, Attached Complication  Wireline Log Received  Geologist Report Received  Distribution  KCC SWD/Rep NGPA
noths if requested in writing and submitted with the months). One copy of all wireline logs and geologist well result in the months). Submit CP-4 form with all plugged well requirements of the statutes, rules and regulations promule ith and the statements herein are complete and correct to the ignature	the spud date, recompletion, workover or conversion of a well, side two of this form will be held confidential for a period or form (see rule 82-3-107 for confidentiality in excess of 12 report shall be attached with this form. ALL CEMENTING TICKETS als. Submit CP-111 form with all temporarily abandoned wells.  Gated to regulate the oil and gas industry have been fully complicate best of my knowledge.  K.C.C., OFFICE USE ONLY Letter of Confidentiality, Attached Complicate to Geologist Report Received  Geologist Report Received  Bistribution  KCC SWD/Rep M6PA

Form ACO-1 (7-91)

SIDE THO

Sec. <u>8</u> Twp. <u>33</u>	SRge. 9	Oration Inc	County	Harper	in turnis i de de la compania de la Compania de la compania de la compa	ene a time time time to see the	178		
INSTRUCTIONS: Show interval tested, time hydrostatic pressures if more space is need	e tool open ar , bottom hole (	nd closed, flowing temperature, fluid r	and shut-in pre	ssures, whet	her shut-in nea	ASSULTS TO	ched static law		
Orill Stem Tests Taken Yes (Attach Additional Sheets.)			∑ Log	Formatio	stion (Top), Depth and Datums Sampl				
Samples Sent to Geolo	gical Survey	⊠ <sub>Yes</sub> □ <sub>No</sub>	CHASE		Top /520	)	Datum /48		
ores Taken		□ <sub>Y•s</sub> □ <sub>N•</sub>		NNSYL VAN		3028 - 3384 -			
Electric Log Run (Submit Copy.)		☑ Yes □ No	BASE HEE		3384				
ist All E.Logs Run:	perger ensity	TONKAWA	3424 37 <i>4</i> 4						
			İ				ी हैंग । -		
		· · · · · · · · · · · · · · · · · · ·	<u> </u>	<del></del>					
	Report al	CASING RECORD	ں نا ہوں نا ں		production, et	c.			
Purpose of String	Size Hole	Size Casing Set (In O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives		
Surface	12 1/4	8 5/8"	23#	274	Class A	200	3% CcL 2 % Gel		
	i i								
	<u> </u>					<u> </u>			
	,	AMOITIONA	L CEMENTING/SQUE	EZE RECORD .	· · · · · · · · · · · · · · · · · · ·	<del> </del>			
Purpose:	Depth     Top Bottom	Type of Cement	#Sacks Used	#Sacks Used   Type and Percent Additives					
Protect Casing Plug Back TD Plug Off Zone									
Shots Per Foot	PERFORATION Specify Footage	RECORD - Bridge Pl of Each Interval	ugs Set/Type Perforated		Fracture, Shot, I Kind of Materi		ueeze Record Depth		
.						5			
						<del></del>			
TUBING RECORD	Size	Set At	Packer At	Liner Run					
Date of First, Resume	od Production,	SWD or Inj. Prod	ucing Method	lowing Pi	, ,		ner (Explain)		
Estimated Production Per 24 Hours	011	Bbls.  Gas	Mcf   Water	<del>- • • • • • • • • • • • • • • • • • • •</del>	Gas-Oil		Gravity		
isposition of Gas:		KE	THOS OF COMPLETE	ON.	N h	. Р	roduction Interva		
☐ Vented ☐ Sald (If vented, subs			Hole Perf	· ´—	Comp. 🗆 Commi				

### ORIGINAL

15-077-21347

JACK EXPLORATION, INC. ZIMMERMAN 1-8 COTTONWOOD CREEK PROSPECT HARPER COUNTY, KANSAS

- 01/13/98 Moving in rotary tools.
- 01/14/98 Rigged up.
- 01/15/98 Drilled 12 1/4" hole to 300'. Ran 263' 8 5/8" 24# csg. Landed @ 274' KB. Cemented with 200 sacks Class A with 3% calcium chloride and 2% gel. Displaced 16 1/4 barrels of water. Circulated cement to surface. Sure shot 1°. Plugged down @ 4:15 p.m.. WOC.
- 01/16/98 Depth 1600', 7 7/8" hole. 72.2' p/hr, 18 hrs. drlg. Straight hole test: 1 1/2° @ 819'; 3/4° @ 1378'. Pump press. 750 lbs.
- 01/17/98 Drlg @ 2600'. Made 1000 ft last 24 hrs. Drilled 50' per hour. Drlg time 20 hrs. Straight hole test: 1° @ 1876' 1° @ 2559'. Mud wt 9.5.
- 01/18/98 Drlg @ 3600'. Displaced mud @ 2807'. Made 1000' in 24 hrs. Straight hole test: 1 1/4°@ 3087'. Mud wt. 9.2, Vis. 48, water loss 8.8, cholorides 4,000, 1/2 lb barrel LCM.
- 01/19/98 Drlg @ 3770'. Mud wt 9.1, Vis. 48. Strapped out of hole. Rigged up Schlumberger. Ran log. Plugged and abandoned @ 3770'. Rigged up Allied. Plugging procedure as follows: 35 sks plug @ 1500', 35 sks plug @ 1100', 35 sks plug @ 320', 25 sks plug @ 60' to surf., 15 sksrathole. Last plug down @ 5:30 a.m.. Cement type 60/40 4% gel.

STATE - RECHINED THISSION

JAN 3:0 1904

Violita, Konsab



#### MAP, INC.

P.O. Box 106 ■ Purcell, Oklahoma 73080 Office 405/527-6038 ■ Home 405/527-5200 ■ Mobile 405/650-0793

### ORIGINAL

# GEOLOGICAL REPORT COTTONWOOD CREEK PROSPECT ZIMMERMAN 1-8 8-T33S-R9W HARPER COUNTY, KANSAS

#### INTRODUCTION

The above captioned well reached total depth of 3,770 feet on January 18, 1998. This was an exploratory test for the Tonkawa Sandstone, which is prolific to the northeast. A gas detector was on location from 660 feet to total depth, with one-man mud-logging beginning at 3,000 feet. The undersigned was on location from approximately 2,500 feet to TD. At total depth, an electric logging suite of Array Induction and Lithodensity – Compensated Neutron was run.

After all data was obtained and analyzed the decision was made to plug the Zimmerman 1-8 as a dry hole.

#### TONKAWA SAND

The Tonkawa Sand was cut at 3,744 (-2372) feet. This was 30 feet low to the two key wells to the east of the prospect. This was due to the erosional shale-out mapped to the west. The well had been running high on structural makers above. We were sixteen feet high to the eastern wells on the Base Heebner marker, which was encountered at 3,384 (-2012) feet. The Tonkawa was described as a clear to frosty, light gray, very fine to fine grained sandstone that is slightly angular. No shows were recorded on the gas chromatograph and samples carried no visible hydrocarbon shows.

#### **CONCUSION**

The Zimmerman 1-8 was drilled as an exploratory test for the Tonkawa Sandstone. On regional structural markers we came in as mapped. We however drilled too far west into the erosional shale-out. This makes the remaining leasehold too small to pursue any other Tonkawa idea.

The Zimmerman 1-8 was plugged and abandoned January 19, 1998.

RECENTLY State oor — Redmin**ssio**n

FIAN 3 6 1998

CONSERVATION DIVISION Wichita, Kansas

Respectfully submitted

MIL POQL

#### ORIGINAL

#### GREAT PLAINS FLUID SERVICE, INC.

71055 No

300

P. O. Box 764 GREENSBURG, KANSAS 67054

Phone (316) 723 - 2267	
Company _ GCK Explosion	Date /- 19-48
Lease = Imaèrma 1-8	License No. 4,5/15
Sec Twp Rge Co	Bols. Hauled 160 Commodity 56
Load Time Unload Time	Outanoff Allen Die, Rig # 3.
Begin, Gauge End. Gauge	Truck # // Driver Daves
Destination	

#### GREAT PLAINS FLUID SERVICE, INC.

Νº 71058

P. O. Box 764 GREENSBURG, KANSAS 67054

Phone (316) 723 - 2267

Company Dack Exploration	
Lease Zimnermin 1-8	License No. 47.54 c5
Sec Twp Rge Co	Bols. Hauled 160 Commodity Ptu
Load Time Unload Time	Howled 65 Preserval
Begin, Gauge End, Gauge	Allen Dob Ro#3 Thankor
Destination Sub Grantsea	RECEIVED STATE Truck # Driver Son

JAN 3 0 1998

CONSERVATION DIVISION Wichita, Kansas

Dear James Jack,

### ORIGINAL 15-077-21347

Here is the information you was wanting on the Jack Exploration, Zimmerman 1-8 reserve pit.

We hauled a total of 320 bbls off the reserve pit and took it to the Watson #2 SWD.

Disposal name: Watson #2

County:

Pratt

Operator name: Oil Producers, Inc. of Kansas

Operator #:

8061

Dockett #:

D-24324

Location:

SW/4 8-29S-15W

If you have any other question please call me.

Thank you

Tamra Great Plains Fluid Service, Inc.

FIAN 3 0 1998

CONSCHOATION DIVISION Wichita, Kansas

# ALLIED CEMENTING CO., INC. 5799

SERVICE POINT: The property of the control of the c CRICINAL SERVICE POINT! TWP RANGE WAS SECULATED TWP CALLED OUT 19 ON LOCATION JOB START SHADON KS. M. 1. 135 MUINS EZIMMELMAN WELL# /- 8 adi fo <u>ve</u>vilakéníh LOCATION E ON 160 40 MW 140 RD OLD OR NEW (Circle one) Notwickissipalingsine foregrams in no event stall mile Coan All ministration of the later and the management of the properties of the second of the later that the properties of the ONTRACTOR QUE LEN KIC Existence is TYPE OF JOBA SUNFACE AND AND ASSESSMENT ASSESSMENT OF THE PROPERTY OF THE PROP Land Mark A.T.D. 1300 Control 12 Control of the wines CULLIAN Solvento en tra HOLE SIZE 12 CASING SIZE 8 & 28 LUM DEPTH 280 64 LUM AMOUNT ORDERED 2005 KN (14559) TUBING SIZE DEPTH TOOL AS TELEBOOS OF SELLOS OF DEPTHICS OF THE PROPERTY OF SELECTION OF SELECTION OF SELECTION OF SELLOS PRES MAX 200 MINIMUM SO 2012 COMMON CONTROL @ CONTROL @ CONTROL @ CONTROL OF THE MEAS: LINE CONTROL SHOE JOINT DEPTH SECURITION OF THE SHOELD SHOW THE CONTROL OF THE SHOW THE SHOW THE CONTROL OF THE SHOW CEMENT LEFT IN CSG. 2007 CONFRONT OF GEL WAS TO THE CONTROL OF THE PERFS. CONTROL SCIENT OF THE PROPERTY OF THE PERFS. CHLORIDE ME TRANSPORTED TO THE PROPERTY OF THE PROPERTY BULK TRUCK #259-1314" DRIVER Nank Brungardt BULK TRUCK in the second design that the second continuence of the second second continuence of the second continuence of DRIVER TOTAL **DEPTH OF JOB** PUMP TRUCK CHARGE EXTRA FOOTAGE **a MILEAGE @** @ @ William of the control of Alice and the control of an transferred by the first of the section to the section of the s TOTAL TENNENT TO STATE OF THE S STREET CITY CTATE STATE \_ refired or formand by his be fraction defects in material and A CERT Like the broade bear to the contract of the propose of the above incoment of allowoped for creating a disappion, for any noncomplise LATER SOLD WATERANGY ATE A CLUMB AND NO DEHER WAR THE CHARLEST OF THE BUT OF THE ANG INCLUSION OF THE WAR RANTY ASTRONORICALAMINARIA IN TOTALISSIVALA PARTICOLAR DISEMPROSE COSTONICES SOLUMINA Lived ATOT and districtive mending the theoretical distribution of replacemental like and a distribution of the attendance of the state provided, and ALLLER shap has to there for the consequential special influentify of punitive demogramments from or consequent residents by a further, product and completely To Allied Cementing Co., Inc., You are hereby requested to rent cementing equipment TOTAL CHARGE and furnish cementer and helper to assist owner or a more DISCOUNT contractor to do work as is listed. The above work was statistic to the above was statistic to the above work was statistic to the above which we want to the above which was statistic to the above work was statistic to the above was statistically was sta done to satisfaction and supervision of owner agent or the same and the same of the same o contractor. I have read & understand the "TERMS AND " TRUE TO THE SECOND TO THE TRUE TO TH CONDITIONS listed on the reverse side the lightest and the reverse side to the light of the ligh

Taylor Printing, Inc., Pratt, KS

# ORIGINAL CEMENTING LOG

STAGE NO.

n     l		ct Medic	ide lacket	icket No.	1 " " " " " s	Spacer Type:  Amt. Sks Yield ft³/sk Density PPC
Date 1	1				370	Amt Sks Vield PP
Company	15 1 8 M					
	mer NAr	27.7	v	Vell No. <u>7-8</u>		
•	Jer _		1	tate <u>Kalisi</u>	<del>-</del>	Comment of the Commen
	ARON E.	1 2	A 37	eld <u> </u>	<u> </u>	EAD: Pump Time hrs. Type ASS A 4 3 CCC
W/6- 140	<u> 35, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5</u>	10,2	< "/w"	Nto:	1 447 L (1 1 1 2 4 1 1 1 2 4 1 1 1 1 1 1 1 1 1 1	Excess
CASING DATA:	PT	A □ Squ	Jeeze 🔲 📑		A	Amt. TO Sks Yield 34 ft 3/sk Density 52 PPC
Surface 🗆	Intermedia	te 🗆 🔝 Produ	iction 🗆 🛒		iner □T	All. Pump Time hrs. Type
Size	Туре	Wei	ght <u>-42</u>	Collar	1400000	Excess
	· · · · · · · · · · · · · · · · · · ·					Amt. Sks Yield ft³/sk Density PPC
· ·	· · · · · · · · · · · · · · · · · · ·	***	» ¥. ·		10 mm and 10 mm 2	MATER: Lead gals/sk Tail gals/sk Total Bbls
<u>.                                    </u>	<del></del>	<u> </u>	Mark Mark			
Casing Depths:		and a second	_ Bottom			ump Trucks Used 255-265 SHANN
				And agents of the		wik Equip. 255-714 The Revolution of the Revolut
			<u> </u>	<del></del>	<u> </u>	
		* ` .	773.4		261.7	3.00
Orill Pipe: Size	10.7	Weight	- 1	Collars		Commence of the control of the commence of the
Open Hole: Size	12.4	T.D	<u> </u>	P.B. to	ft. FI	loat Equip: Manufacturer
CAPACITY FAC						hoe: TypeDepth
Casing:		<u>.cezu.</u> *	Lin. ft./B			loat: Type Depth
Open Holes:	Bbls/Lin. ft	1432	Lin. ft./B	bl. 6.85	c	entralizers: Quantity Plugs Top Coco & Btm.
rill Pipe:	Bbls/Lin. ft		Lin. ft./B		Si	tage Collars
Annulus:	Bbls/Lin. ft. 🚅	<u>5735                                   </u>	Lin. ft./B			pecial Equip.
	Bbls/Lin. ft	··-	Lin. ft./B	bl	Di	isp. Fluid Type The American American Bbls. Weight PPC
erforations:	From	ft. to	<u> </u>	ft. Amt	м	fud Type Weight PPC
· · · · · · · · · · · · · · · · · · ·			***		*	and the transfer of the state o
OMPANY REP	RESENTATIVE (	THALAKT	11/2015	chi and	and the prompted by	CEMENTER CAPITED AND CONTROL OF THE
COMPANY REP	RESENTATIVE	Hall	Charles		an in proceeding high	CEMENTER Car / Talking
COMPANY REP	PRESSU	· · · · · · · · · · · · · · · · · · ·	FLU	ID PUMPED I	DATA	CEMENTER
		· · · · · · · · · · · · · · · · · · ·		1 1	RATE	CEMENTER
TIME	PRESSU DRILL PIPE	RES PSI	FLU	ID PUMPED I Pumped Per Time Period	RATE Bbls Min.	REMARKS
TIME	PRESSU DRILL PIPE	RES PSI ANNULUS	FLU TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	REMARKS
TIME	PRESSU DRILL PIPE	RES PSI ANNULUS	FLU TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	REMARKS  On Local Day
TIME	PRESSU DRILL PIPE	RES PSI ANNULUS	FLU TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	REMARKS  CM LC CA DA KARANA
TIME	PRESSU DRILL PIPE	RES PSI ANNULUS	FLU TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	REMARKS  The control of the control
TIME	PRESSU DRILL PIPE	RES PSI ANNULUS	FLU TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	REMARKS  CN LC CO
TIME AM/PM	PRESSU DRILL PIPE CASING	RES PSI ANNULUS	FLU TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	REMARKS
TIME AM/PM	PRESSU DRILL PIPE CASING	RES PSI ANNULUS	FLU TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	REMARKS  ON LOCALIDATE  OUM 2 3 KR 1 + 2 - K 10 K 2 + 20 C 4 + 20
TIME AM/PM	PRESSU DRILL PIPE CASING  /CO	RES PSI ANNULUS	FLU TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	REMARKS  Om Local Day Karana Andrews  Om Loca
TIME AM/PM	PRESSU DRILL PIPE CASING  /CO	RES PSI ANNULUS	FLU TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	REMARKS  ON LOCATION  ON LOCATI
TIME AM/PM	PRESSU DRILL PIPE CASING  /CO	RES PSI ANNULUS	FLU TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	REMARKS  ON LOOK STATE OF THE S
TIME AM/PM	PRESSU DRILL PIPE CASING	RES PSI ANNULUS	FLU TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	REMARKS  ON LOCATION  OLIVERATE
TIME AM/PM	PRESSU DRILL PIPE CASING  /CO /CO /CO	RES PSI ANNULUS	FLU TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	REMARKS  Oum 2 3 8 A C S S S S S S S S S S S S S S S S S S
TIME AM/PM	PRESSU DRILL PIPE CASING	RES PSI ANNULUS	FLU TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	REMARKS  OM LOCATION KNIZ  OLIVERATION OF THE CONTROL OF THE CONTR
TIME AM/PM	PRESSU DRILL PIPE CASING  /CO /CO /CO	RES PSI ANNULUS	FLU TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	REMARKS  OM LOCADON KANAS  OM
TIME AM/PM	PRESSU DRILL PIPE CASING  /CO /CO /CO	RES PSI ANNULUS	FLU TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	REMARKS  ON LOCATION  OLIVERATE
TIME AM/PM	PRESSU DRILL PIPE CASING  / C O VOO	RES PSI ANNULUS	FLU TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	REMARKS  OM LOS DA REMARKS  OLIMINATION OF THE PROPERTY OF THE
TIME AM/PM	PRESSU DRILL PIPE CASING  / C O VOO	RES PSI ANNULUS	FLU TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	REMARKS  ON LOS DA KARANAS  OLA CARANAS  CARANAS  OLA CAR
TIME AM/PM	PRESSU DRILL PIPE CASING  / C O VOO	RES PSI ANNULUS	FLU TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	REMARKS  ON LOS DA KARANAS  OLIMATA AND AND AND AND AND AND AND AND AND AN
TIME AM/PM	PRESSU DRILL PIPE CASING  / C O VOO	RES PSI ANNULUS	FLU TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	REMARKS  OM LO SOLO SOLO SOLO SOLO SOLO SOLO SOLO
TIME AM/PM	PRESSU DRILL PIPE CASING  / C O VOO	RES PSI ANNULUS	FLU TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	REMARKS  OUM 2 3 DR 1
TIME AM/PM	PRESSU DRILL PIPE CASING  /CO /CO	RES PSI ANNULUS	FLU TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	REMARKS  OUM 2 ROB C SOCIONA CONTROL OF SOCIONA CON
TIME AM/PM	PRESSU DRILL PIPE CASING  /CO /CO	RES PSI ANNULUS	FLU TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	REMARKS  REMARKS  OUM 2 R D R L C C C C C C C C C C C C C C C C C C
TIME AM/PM	PRESSU DRILL PIPE CASING	RES PSI ANNULUS	FLU TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	REMARKS  REMARKS  OUM TO BE TO THE TO
TIME AM/PM	PRESSU DRILL PIPE CASING  /CO VOO	RES PSI ANNULUS	FLU TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	REMARKS  OF LOCAL BY  OF LOCAL
TIME AM/PM	PRESSU DRILL PIPE CASING  /CO VOO	RES PSI ANNULUS	FLU TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	REMARKS  OF LOCAL BY  OF LOCAL
TIME AM/PM	PRESSU DRILL PIPE CASING	RES PSI ANNULUS	FLU TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	REMARKS  OF LOCAL DE LA COMPANIA  OF LOCAL DE



## CEMENTING LOG

STAGE NO.

CEMEN	TING CO.,	INC.				EMENT DATA:
Date 1 - 18	-98 nim	amed	lodie 11	okat No. 50	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	pacer Type: Tresh HD
Company	CV EX	olor at		Allen	• 1	Amt. Sks Yield ft³/sk Density PPG
. ~ .	merma	1	1	/ell No. 1 - 8	7/2. / 法	TO COMPANY TO SERVICE
	086				and the	Service A Kall Line Made Harry a Consensation of the consensation
	3,00,8	on 160 t		ed 9:335	9w 1	EAD: Pump Time hrs. Type
PD 45	-lω-1/2	5	1 51			Excess
CASING DATA:	PT.	— A`BL Squ	leeze 🗆 👙		A Property	AmtSks Yield ft³/sk Density PPG
Surface	Intermediat	<u> </u>	ction 🗆 💮	AATL SEE		AIL Pump Time hrs. Type CLASS A
Size	Type	Wei	ght	Collar		60/40/4% GC Excess
			** **	standard St	tion of the	Amt. 145 Sks Yield 41 41 ft 3/sk Density 14.0 PPG
	-		*	<u> </u>	<u> </u>	VATER: Lead gals/sk Tail gals/sk Total Bbls.
	<u> </u>	1 1 1 1 1 1	a di terup			这一个人。 11年,他们就是一个人的一个人的一个人的一个人的一个人的一个人的一个人的一个人的一个人的一个人的
Casing Depths: T	op <u>274-</u>	<u>85/2</u>	Bottom	. A		tump Trucks Used 233-300 Tustin H.
	·	·	· San State	<u> </u>	`В	ulk Equip
	***		•	m		AND THE CONTRACT OF THE PROPERTY OF THE PROPER
•		- · · · -				The control of the state of the
Drill Pipe: Size _	4/2			Collars ×ho	<del>-</del>	And the state of t
Open Hole: Size	ファ/x	т.D. <u>-3</u>	770 ft. f	P.B. to	ft. F	loat Equip: Manufacturer
CAPACITY FACTO	ORS:				. S	hoe: Type Depth
Casing:	Bbls/Lin. ft	0631	Lin. ft./Bl	11 00		loat: Type Depth
Open Holes:	Bbls/Lin. ft	0607	Lin. ft./Bl			entralizers: Quantity Plugs Top Btm
Drill Pipe:	Bbls/Lin. ft	0143	Lin. ft./Bi			tage Collars
Annulus:	Bbls/Lin. ft.	0406	Lin. ft./Bl	~ ~ ~ ~	<del></del>	pecial Equip.
	Bbls/Lin. ft		Lin. ft./Bl			
Perforations: F	rom	ft. to		ft. Amt	N	1ud Type Chemica Weight PPG
		1	S V 0			
COMPANY REPR	ESENTATIVE	HAD OF	Atso	<u>D</u>	- (2)	CEMENTER COLL STORY
TIME	PRESSU	RES PSI	FLU	ID PUMPED (	DATA	Confirm Construction and Construction of the C
AM/PM	DRILL PIPE CASING	ANNULUS	TOTAL	Pumped Per	RATE	REMARKS
	CASING	AITITOEOU	FLUID	Time Period	Bbls Min.	The state of the s
1			111	A A A A A A A A A A A A A A A A A A A	3 5 5 2 1%	1440 0 3. 55Ks 1990 1990 1990
100	250	<u> </u>	14	a di		Start Fresh H-0 Spacer
<u> </u>			8	2,000	3	Start Centent = 10014014
	200	<u> </u>		The state of the state of		Clart min
0.10	700				7/-	CION DIMOS
2:10			í.			STATE TO THE STATE OF THE STATE
		,	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	in the justice of		1118 'a) 35 SX5
2,172	175		9	والموالية الكراسية	. <	Start Hoppace
	1/5		8	العلى والمنابعة	1000 00	CLAN CEMENT - COLUCIU
		·	3	a de la composición della comp	<b>4</b>	ISTART HOUSDACER
<del></del>	100		Ŕ	·	415	Startmed
2:55	70.2	• .	* 1 A.18	- ខេត្ត	1. 中华小社会会	Stop Pumps
<del></del>		***	i i ii	and they	makili dikarihin	· 图1000000000000000000000000000000000000
				, O		1214 W/35SXS
3:45	100		5		4	Start Ho Pad
			$\hat{\mathbf{X}}$	•	5	Rtart Cement - 60140/4
3102	125		2/2		R	Start Fred Ho Displace
			٦.			Stop Points
						20,00
5.10	50		7		2	60'W1255x5.
5.30	50		_ 3		<u></u>	Pathole WILSSXS
					,	L'emented W/1455XS.60/46/47/60-1
						,
						PSI BLEEDBACK STATE CO BBLS. THANK YOU
FINAL DISP. PRES	SS:	PSI	BUMP PLUG	i TO		PSI BLEEDBACK GTATE BBLS. THANK YOU

FINAL DISP. PRESS: \_ Taylor Printing, Inc., Pratt, KS

THANK YOU

### ALLIED CEMENTING CO., INC. 5852

REMIT TO P.O. BOX 31 ORIGINAL RUSSELL, KANSAS 67665 CALLED OUT ON LOCATION JOB START SEC. TWP. TWP. RANGE CALLED OUT DATE - 18-98 COUNTY STATE with their the substitution LOCATION Sharon F COLLOT & 140 RD LEASE2: mm=rmatwell# - 8 OLD ORNEW (Circle one)

145-10-75

Type of Job Rot Arthur Physics (1997)

OWNER

Type of Job Rot Arthur Physics (1997)

Type of Job Rot Arthur Physics (1997) HOLE SIZE 7.7/8 T.D. 3770 of all the appropriate of the High section of the All T.D. CASING SIZE 25/22 SUBJECT DEPTH STUBERED 1455XS 60/40/4/6 Ge DEPTH TUBING SIZE DRILL PIPE H 12 X DOLC DEPTH 14 9 OF THE VIEW OF THE PROPERTY TOOL TO A SECOND T PRES: MAX 300 MINIMUM 450 POZMIX OF THE POZM CEMENT LEFT IN CSG. In the control of the control o PERFS. TO TO THE PERFORMANCE OF CHLORIDE @ COUPMENT OF THE PROPERTY OF TH pludaris of grandlish professorial such this residuation species and professorial contractions and the contraction of the contr @ @ PUMPTRUCK CEMENTER ALLY Dreling #233-302 HELPER TUSKIN **HANDLING** BULK-TRUCK POPER AND AND ADDRESS OF THE MILEAGE DRIVER JAMES HOLL 301 TOTAL DRIVER MALLA JULION FORMS TALLANDO STANDARD AND SERVICE USING STANDARD CONTROL CONTROL REMARKS: A supplied the continuous and a control of the cont DEPTH OF JOB 1490 1490-13-55 PUMP TRUCK CHARGE 1118-355XS EXTRA FOOTAGE 314 3 5 SX 5.113 **MILEAGE** Pathole 155x . . . @ @ sing Comented will ssx 60140/49660 mating maker begins of the restly a look of the control begins the control of the TOTAL 的音像 对自体的全体操作的 的复数人的 医二氏 医红性结节原的 网络维尔克斯德 the bulletic being the action of the property FLOAT EQUIPMENT STREET and are a department as unions with the department of Fabardically for Callinden in the STATE ing the firm the estate mest and rother it contained in the CELLER 2 HING A believe the believe it recommends in the wind for the twoealniadoses (mais), progressor de la composición de la composición de 1998. Egionos francis con cuer a composición de la composición de la composición de la composición de 1998. - PERFECTION OF A PROPERTY OF A VERY COLUMNIC ANY WAR Madens a security of the contract of the contract security and the contract of the contract of the contract of The transport of socionaria in the contraction of the socional soc provided, and ALLE in france and expensive mercental engine and the provided by the control of t and specifically and the To Allied Cementing Co., Inc. You are hereby requested to rent cementing equipment. and furnish cementer and helper to assist owner or DISCOUNT IF PAID IN 30 DAYS contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND LET Wink dame by ALL William and a confidence of the confidence of CONDITIONS" listed on the reverse side. file of Algorians at the fire the many distributions as the constant of the co SIGNATURE X