

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

Operator: License # 5398Name: ARCO Oil & Gas CompanyAddress Box 1610City/State/Zip Midland, TX 79702

Purchaser: _____

Operator Contact Person: Ken W. GosnellPhone (915) 688-5672Contractor: Name: Cheyenne Drilling INCLicense: 5382Wellsite Geologist: Joe Candella

Designate Type of Completion

☒ New Well ☐ Re-Entry ☐ Workover☐ Oil ☐ SWD ☐ SIGW ☐ Temp. Abd.☒ Gas ☐ ENHR ☐ SIGW☐ Dry ☐ Other (Core, WSW, Expl., Cathodic, etc.)

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

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

☐ Deepening ☐ Re-perf. ☐ Conv. to Inj/SWD☐ Plug Back ☐ PSTD☐ Commingled ☐ Docket No. _____☐ Dual Completion ☐ Docket No. _____☐ Other (SWD or Inj?) ☐ Docket No. _____Spud Date 12-10-93 Date Reached TD 12-13-93 Completion Date 1-3-94API NO. 15- 093-21311-0000 ORIGINALCounty KearnySE NW NW Sec. 20 Twp. 24 Rge. 36 X E V4030 Feet from (S)W (circle one) Line of Section4030 Feet from (E)W (circle one) Line of SectionFootages Calculated from Nearest Outside Section Corner:
NE. (SE) NW or SW (circle one)Lease Name Stinchcomb Well # 3Field Name HugotonProducing Formation ChaseElevation: Ground 3145 KB 3156Total Depth 2750 PSTD 2700Amount of Surface Pipe Set and Cemented at 868 FeetMultiple Stage Cementing Collar Used? ☐ Yes ☒ No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from _____

feet depth to _____ w/ _____ sz cat.

Drilling Fluid Management Plan ALT 1 8-15-94
(Data must be collected from the Reserve Pit)Chloride content 1000 ppm Fluid volume 4000 bblsDewatering method used Evaporation

Location of fluid disposal if hauled offsite: _____

Operator Name _____

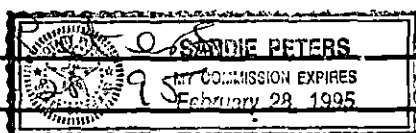
Lease Name _____ License No. _____

Quarter Sec. Twp. S Rng. E/V

County _____ Docket No. _____

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

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

Signature L. PetersenTitle Drilling Team Leader Date 3/29/94Subscribed and sworn to before me this 29 day of March
19 94.Notary Public Sandie PetersDate Commission Expires 2/28/95

4-15-94

K.C.C. OFFICE USE ONLY

F ☒ Letter of Confidentiality Attached

C ☒ Wireline Log Received

C ☒ Geologist Report Received

STATE CORPORATION COMMISSION

Wichita, Kansas

APR 15 1994

KCC ☒ SVD/ADP ☐ KGPA

KG3 ☐ Plug ☐ Other

Form ACD-1 (7-91)

SIDE TWO

Operator Name ARCO Oil & Gas CompanyLease Name StinchcombWell # 3Sec. 20 Twp. 24 Rge. 36☐ EastCounty Kearny☒ West

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

 Drill Stem Tests Taken ☐ Yes ☒ No
 (Attach Additional Sheets.)

 Samples Sent to Geological Survey ☐ Yes ☐ No

 Cores Taken ☐ Yes ☒ No

 Electric Log Run ☒ Yes ☐ No
 (Submit Copy.)

List All E.Logs Run:

PIL-GR

LDL-CNL-ML-GR

SDT-GR

ML-GR

☒ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
Stone Corral	1870	
Chase	2466	
Krider	2480	
Winfield	2520	
Towando	2580	
Lo. Ft. Riley	2628	
Wreford	2710	

CASING RECORD

☒ New ☐ Used

Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12-1/4	8-5/8	24	868	65/35/6	250	2%CC+1/4#FC
					C	200	2%CC+1/4#FC
Production	7-7/8	4-1/2	10.5	2750	65/35/6	475	1/4#FC
					50/50Poz	200	1/4#FC

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
☐ Perforate				
☐ Protect Casing				
☐ Plug Back TD				
☐ Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
4	2466-2498, 2520-2546	A w/5040 gals	
	2581-2604, 2616-2670	Frac w/240,000 gals and 500,000# sd	

TUBING RECORD	Size	Set At	Packer At	Liner Run	☐ Yes ☐ No
	None				

Date of First, Resumed Production, SVD or Inj.	Producing Method	☒ Flowing ☐ Pumping ☐ Gas Lift ☐ Other (Explain)
1-8-94		

Estimated Production Per 24 Hours	Oil Sbls.	Gas Mcf	Water Sbls.	Gas-Oil Ratio	Gravity
	0	2005	0	NA	Gas 0.720

Disposition of Gas:

METHOD OF COMPLETION

Production Interval

☐ Vented ☒ Sold ☐ Used on Lease
 (If vented, submit ACO-18.)

☐ Open Hole ☒ Perf. ☐ Dually Comp. ☐ Commingled ☐ Other (Specify)

2466-2670

CEMENTING SERVICE REPORT

DS-496 PRINTED IN U.S.A.

DOWELL SCHLUMBERGER INCORPORATED

15-093-21311-0000

TREATMENT NUMBER 12-5783	DATE 12-11-93
STATE KS	DISTRICT 3555

WELL NAME AND NO

LOCATION (LEGAL)

Stinchcomb #3
FIELD POOL

SEC 20-245-360
FORMATION

COUNTY/PARISH

STATE

API NO

Leavenworth
COUNTY

Kansas
STATE

NAME SIEREN

AND

ADDRESS

ZIP CODE

SPECIAL INSTRUCTIONS

IS CASING/TUBING SECURED? ☐ YES ☐ NOLIFT PRESSURE PSI CASING WEIGHT - SURFACE AREA (3.14 x R²)

PRESSURE LIMIT PSI BUMP PLUG TO 1070 PSI

ROTATE RPM RECIPROCATE FT No. of Centralizers

WELL DATA

BIT SIZE 12 1/4	CSG/Liner Size 8 5/8	TOP
TOTAL DEPTH 20	WEIGHT 24	
ROT ☐ CABLE	FOOTAGE 870	
MUD TYPE	GRADE	
☐ BHST ☐ BHCT	THREAD 8 1/2	
MUD DENSITY	LESS FOOTAGE SHOE JOINT(S) 44.83	TOTAL 52.57
MUD VISC	Disp Capacity 225.101	

NOTE: Include Footage From Ground Level To Head In Disp. Capacity

Floor Collar	TYPE	
225.101	DEPTH	
Cut Guide	TYPE	
870	DEPTH	

Head & Plugs	☐ TBG ☐ D.P.	SQUEEZE JOB
☐ Double	SIZE	TYPE
☒ Single	WEIGHT	DEPTH
☐ Swage	GRADE	TAIL PIPE SIZE DEPTH
☐ Knockoff	THREAD	TUBING VOLUME Bbl's
TOP ☒ W ☐ NEW ☐ USED		CASING VOL. BELOW TOOL Bbl's
BOT ☐ W ☐ DEPTH		TOTAL Bbl's
		ANNUAL VOLUME Bbl's

TIME	PRESSURE	VOLUME PUMPED cu. ft.	JOB SCHEDULED FOR TIME	DATE	ARRIVE ON LOCATION TIME	DATE	LEFT LOCATION TIME	DATE
0001 to 2400	TBG OR D.P.	CASING	INCREMENT	CUM.	INJECT RATE	FLUID TYPE	FLUID DENSITY	
1114	1500							
1115		150	40		4	H ₂ O	8.32	PRE JOB SAFETY MEETING + PRESSURE TEST
1125		210	94	40	6	OUT	12.2	START WATER ahead
1142		100	47	134	3	OUT	14.8	START LOW CEMENT
1157		-		181	-			START TBG CEMENT
1159				181	-			Shut dn
1200		100	52.6	181	5	H ₂ O	8.32	DROP TOP Plug
1209		190		42	2			START DISPLACEMENT
1213		230		52.6	2			SLOW RATE 2BPM
1214		1070		52.6	-			Bump top Plug
								Check Flow - Flow Holding

REMARKS

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT./SK	COMPOSITION OF CEMENTING SYSTEMS	SLURRY MIXED BBL'S	DENSITY
1	250	2.1	65/35 + 6% D ₂ O + 2% S ₁ + 1/4" / 3K D ₂ 9	94	12.2
2	200	1.32	C + 2% S ₁ + 1/4" / 3K D ₂ 9	47	14.8
3					
4					
5					
6					

BREAKDOWN FLUID TYPE	VOLUME	DENSITY	PRESSURE	MAX
☐ HESITATION SO	☐ RUNNING SO	CIRCULATION LOST	☐ YES ☒ NO	Cement Circulated To Surf
BREAKDOWN	PSI	FINAL	PSI	DISPLACEMENT VOL.
Washed Thru Perfs	☐ YES ☐ NO	TO	FT	MEASURED DISPLACEMENT
PERFORATIONS	TO	TO		CUSTOMER REPRESENTATIVE
				DS SUPERVISOR

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Wichita, Kansas



HALLIBURTON

15-093-21311-0000

JOB LOG FORM 2013 R-4

ORIGINAL

DATE 12-13-93 PAGE NO. 1

CUSTOMER		WELL NO.		LEASE		JOB TYPE		TICKET NO.	
Sierra		3		Stinchcomb		4 1/2 Prod.		649217	
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS	
				T	C	TUBING	CASING		
	04:30							Called Out	
	20:00							ON location, rig L.D.D.P.	
	20:30							Set up Co. Tik. Safety meeting	
	22:30							Start casing, run floating equmt.	
	24:30							Casing on bottom	
	24:35							hookup iron, rig circulating	
	24:50							hookup iron, Co. Tik.	
	24:53	6	30		x		250	Start water spacer	
	24:58	6	257		x		250	Start lead cement	
	01:31	6	48		x		250	Start Tail Cement	
	01:39							Shut down, wash pumps & lines	
	01:43							Drop SW Top Plug	
	01:45	6	22		x		300	Start water displacement	
	01:49	6	12		x		600	Cement circulated to surface	
	01:52	3	10		x		750	Slowed rate	
	01:55				x		800	Plug landed	
	01:55				x		1250	Pressured up	
	01:56				x			released pressure, float held	
	02:00							Job Complete	
								Thanks for Calling	
								Halliburton	
								Richard	
								&	
								Crew	

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CUSTOMER



HALLIBURTON

JOB SUMMARY

HALLIBURTON DIVISION
HALLIBURTON LOCATION

171st Concession
1. bare / ORIGINAL

15-093-213 11-0005
BILLED ON TICKET NO. 649717

WELL DATA

FIELD W 66K SEC 20 TWP. 24 RNG. 36 COUNTY Neosho STATE KS

FORMATION NAME _____ TYPE _____
FORMATION THICKNESS _____ FROM _____ TO _____
INITIAL PROD: OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD
PRESENT PROD: OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD
COMPLETION DATE _____ MUD TYPE _____ MUD WT. _____
PACKER TYPE _____ SET AT _____
BOTTOM HOLE TEMP. _____ PRESSURE _____
MISC. DATA _____ TOTAL DEPTH _____

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	N	105	4 1/2	K.B.	8716	
LINER TUBING	U	24	8 5/8	K.B.	867	
OPEN HOLE			7 7/8	867	2250	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

JOB DATA

CALLER OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>12-13-93</u>	DATE <u>12-13-93</u>	DATE <u>12-13-93</u>	DATE <u>12-14-93</u>
TIME <u>16:30</u>	TIME <u>20:00</u>	TIME <u>22:30</u>	TIME <u>02:00</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>R Taylor</u>	<u>40076</u>	<u>Liberal</u>
<u>S. Tate</u>	<u>52823</u>	<u>Liberal</u>
<u>D. McIntyre</u>	<u>52920</u>	<u>Hugoton</u>
<u>D. Corpening</u>	<u>3625</u>	<u>Hugoton</u>
<u>A Clark</u>	<u>5837</u>	<u>Hugoton</u>
	<u>4461</u>	<u>Hugoton</u>
	<u>2649</u>	<u>Hugoton</u>

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR	<u>1</u>	<u>H</u>
FLOAT SHOE	<u>1</u>	<u>O</u>
GUIDE SHOE		<u>W</u>
CENTRALIZERS	<u>20</u>	<u>C</u>
BOTTOM PLUG		<u>H</u> <u>O</u>
TOP PLUG	<u>1</u>	<u>O</u>
HEAD	<u>1</u>	<u>W</u>
PACKER <u>Cosgrove</u>	<u>1</u>	<u>C</u>
OTHER <u>Weld A</u>	<u>1</u>	<u>O</u>

MATERIALS

TREAT. FLUID _____ DENSITY _____ LB/GAL. API
DISPL. FLUID _____ DENSITY _____ LB/GAL. API
PROP. TYPE _____ SIZE _____ LB.
PROP. TYPE _____ SIZE _____ LB.
ACID TYPE _____ GAL. _____ %
ACID TYPE _____ GAL. _____ %
ACID TYPE _____ GAL. _____ %
SURFACTANT TYPE _____ GAL. _____ IN
NE AGENT TYPE _____ GAL. _____ IN
FLUID LOSS ADD. TYPE _____ GAL.-LB. _____ IN
GELLING AGENT TYPE _____ GAL.-LB. _____ IN
FRIC. RED. AGENT TYPE _____ GAL.-LB. _____ IN
BREAKER TYPE _____ GAL.-LB. _____ IN
BLOCKING AGENT TYPE _____ GAL.-LB. _____
PERFFAC BALLS TYPE _____ QTY. _____
OTHER _____
OTHER _____

DEPARTMENT Cement
DESCRIPTION OF JOB 4 1/2" Prod.

JOB DONE THRU: TUBING ☐ CASING ☒ ANNULUS ☐ TBG./ANN. ☐

CUSTOMER REPRESENTATIVE X [Signature]

HALLIBURTON OPERATOR [Signature] COPIES REQUESTED 1

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
<u>1</u>	<u>700</u>	<u>HLC</u>	<u>C</u>	<u>D</u>	<u>2% C.C., 1/4 1/2" Floc.</u>	<u>2.06</u>	<u>12.3</u>
<u>2</u>	<u>200</u>	<u>50/50 pot</u>	<u>C</u>	<u>D</u>	<u>1/4 1/2" Floc.</u>	<u>1.36</u>	<u>137</u>

PRESSURES IN PSI

CIRCULATING _____ DISPLACEMENT _____
BREAKDOWN _____ MAXIMUM _____
AVERAGE _____ FRACTURE GRADIENT _____
SHUT-IN: INSTANT _____ 5-MIN _____ 15-MIN. _____
HYDRAULIC HORSEPOWER _____
ORDERED _____ AVAILABLE _____ USED _____
AVERAGE RATES IN BPM _____
TREATING _____ DISPL. _____ OVERALL _____
CEMENT LEFT IN PIPE _____
FEET 4295 REASON Shut Joint

SUMMARY

VOLUMES

PRESLUSH: BBL.-GAL. _____ TYPE _____
LOAD & BKDN: BBL.-GAL. _____ PAD: BBL.-GAL. _____
TREATMENT: BBL.-GAL. _____ DISPL: BBL.-GAL. 2.5
CEMENT SLURRY BBL.-GAL. 224 Slurry
TOTAL VOLUME: BBL.-GAL. 299 5

REMARKS

See Job log

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