

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

ORIGINAL

API NO. 15- 175-215730000
County SEWARD
C E/2 NW NE Sec. 28 Twp. 33S Rge. 32 X W

Operator: License # 7457
Name: ELDER & VAUGHN, INC.
Address P.O. BOX 18938
City/State/Zip OKLAHOMA CITY, OK 73154

550 Feet from S (circle one) Line of Section
1706 Feet from E/W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
NE, SE, NW or SW (circle one)

Purchaser: _____
Operator Contact Person: JACK H. VAUGHN
Phone (405) 842-8877

Lease Name ARKALON Well # 2-28

Field Name ARKALON

Producing Formation CHASE

Contractor: Name: CHEYENNE DRILLING INC.
License: 5382

Elevation: Ground 2580 KB 2591

Total Depth 3082 PBD 3053

Wellsite Geologist: DON HUBER

Amount of Surface Pipe Set and Cemented at 618 Feet

Multiple Stage Cementing Collar Used? Yes X No

If yes, show depth set _____ Feet

Designate Type of Completion
 New Well Re-Entry Workover

If Alternate II completion, cement circulated from _____

Oil SWD SIOW Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, WSW, Expl., Cathodic, etc)

feet depth to _____ w/ _____ sx cmt.

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

Drilling Fluid Management Plan A14.1, 3-9-98 UC
(Data must be collected from the Reserve Pit)

Operator: _____

Chloride content 3400 ppm Fluid volume 586 bbls

Well Name: _____

Dewatering method used EVAPORATION

Comp. Date _____ Old Total Depth _____

Location of fluid disposal if hauled offsite: _____

Deepening Re-perf. Conv. to Inj/SWD
 Plug Back PBD
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Inj?) Docket No. _____

Operator Name _____

Lease Name _____ License No. _____

10-24-96 10-27-96 11-22-96
Spud Date Date Reached TD Completion Date

Quarter _____ Sec. _____ Twp. _____ S Rng. _____ E/W _____

County _____ Docket No. _____

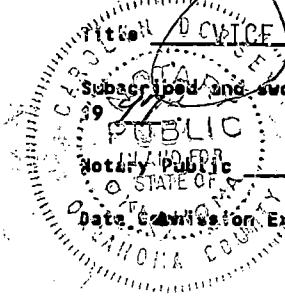
INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information on 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 [Signature]

K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Geologist Report Received
Distribution
 KCC SWD/Rep NGPA
 KGS Plug Other (Specify)

Date 1-20-97
Subscribed and sworn to before me this 20th day of JANUARY



Carolyn Morsey
Notary Public
Date Commission Expires 1-16-98

Operator Name ELDER & VAUGHN, INC. Lease Name ARKALON Well # 2-28
 Sec. 28 Twp. 33S Rge. 32 East County SEWARD 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 (Attach Additional Sheets.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	GLORIETTA SD.	848'	(+1743)
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	CIMARRON ANHYDRITE	1328'	(+1263)
List All E.Logs Run:		WELLINGTON ANHYDRITE	1935'	(+656)
		HERINGTON LS.	2394'	(+197)
		UPPER KRIDER LS.	2431'	(+160)
		LOWER KRIDER LS.	2460'	(+131)
		WINFIELD LS.	2522'	(+69)
		UPPER FT. RILEY LS.	2589'	(+2)
		COUNCIL GROVE LS.	2744'	(-153)
		WRETFORD LS.	2768'	(-77)

*Comp. Dens., Comp. Neut.,
Dual Induction*

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
CONDUCTOR	24"	20"	-	85'			
SURFACE	12-1/4"	8-5/8"	23	618'	PREMIUM PLUS	300	2% C.C. 1/4# SK. FLOCEL
PRODUCTION	7-7/8"	5-1/2"	15.5 & 17#	3080'	POZMIX	190	10% SALT 12.5# GUNSONITE/SK. # 0.75% CFR-3

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> 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
2	2466-76	1000 gals 15% HCL	
2	2432-40	1000 gals. 15% HCL	
2	2396-2400	500 gals. 15% HCL	
		FRAC ALL PERFS W/ 15,000 GALS. 60 QUALITY	

TUBING RECORD Size 2 3/8" Set At 2359 Packer At _____ Liner Run Yes No

Date of First, Resumed Production, SWD or Inj. 11-14-96 Producing Method Flowing Pumping Gas Lift Other (Explain) _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	0-	207	24		

Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACO-18.) METHOD OF COMPLETION: Open Hole Perf. Dually Comp. Commingled Other (Specify) _____ Production Interval: 2396-2476

ORIGINAL

ELDER & VAUGHN
ARKALON 2-28
SECTION 28-T33S-T32W
SEWARD COUNTY, KANSAS

15-175-21573

COMMENCED: 10-24-96
COMPLETED: 10-28-96

SURFACE CASING: 619' OF 8 5/8" CMTD
W125 SKS MIDCON + 3% CC + 1/4
#/SK FLOCELE. TAILED IN W/100 SKS
PREMIUM PLUS + 2% CC + 1/4 #/SK FLOCELE
1" W/100 SKS PREMIUM PLUS

FORMATION

DEPTH

SURFACE HOLE	0 - 620
RED BED	620 - 1140
RED BED & ANHYDRITE	1140 - 2075
RED BED & SHALE	2075 - 2460
RED BED & ANHYDRITE	2460 - 2750
LIMESTONE & SHALE	2750 - 3082 RTD

I DO HEREBY CERTIFY THAT THE FOREGOING STATEMENTS ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

CHEYENNE DRILLING, INC.

WRAY VALENTINE

STATE OF KANSAS : ss:

SUBSCRIBED AND SWORN TO BEFORE ME THIS 29TH DAY OF OCTOBER, 1996

JOLENE K. RUSSELL

NOTARY PUBLIC

KANSAS RECORDS
FILED
OCT 27 1996
P. 3. 06

JOB LOG HAL-2013-C

CUSTOMER Elder & Vaughn	WELL NO. 2-28	LEASE Arkylon	JOB TYPE 5 1/2 L.S.	TICKET NO. 106312
----------------------------	------------------	------------------	------------------------	----------------------

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0400							Called out for job.
	0715							on loc. rig L.D.P.P.
	0815							Out of hole W.D.P.
	0850							Start 5 1/2 CSG.
	1100							CSG on BOH. Hook up 5 1/2 P.C. c.
								circ. Iron to rig. 20 ft cdkr.
	1114							brk circ w/rig.
	1115							circ. to pit
	1136							Thru. Circ. Hook. Iron to P.P.
	1140	6.0	52		✓			200 Pump 1905x 50/50 from P02 9+ 13.4 #/cu
	1150	0	52		✓			0 Thru pumping. Shut down wash up
	1152	7.0	72.5		✓			100 Pump disp.
	1158	6.0	72.5		✓		100/300	35 bbls in lift cmt
	1201	3.5	72.5		✓		300/400	55 bbls in 510 rate
	1209	1.5	72.5		✓		500/1400	Land play.
	1210	0	72.5		✓		1400/0	Release Fract - Held.
	1210							Job over
								Thanks For calling. Halliburton
								Liberat 115.
								Tyce, Sonny & Jim
								max lift = 500psi

ORIGINAL

10-28-96 10:27 AM
 10-28-96 10:27 AM
 10-28-96 10:27 AM



JOB SUMMARY

HALLIBURTON DIVISION
HALLIBURTON LOCATION

MidCont
Liberal, Ks

BILLED ON TICKET NO. 106290

WELL DATA
FIELD _____ SEC. 28 TWP. 33^S RNG. 32 COUNTY Sevier 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 ORIGINAL MUD WT. _____
PACKER TYPE _____ SET AT _____
BOTTOM HOLE TEMP. _____ PRESSURE _____
MISC. DATA _____ TOTAL DEPTH _____

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING		24	8 ^{5/8}	KB	622	
LINER						
TUBING						
OPEN HOLE			12 ^{1/4}	GL	620	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS			1"	KB	95'	

JOB DATA

CALLER OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>10-24</u>	DATE <u>10-24</u>	DATE <u>10-24</u>	DATE <u>10-25</u>
TIME <u>1900</u>	TIME <u>2105</u>	TIME <u>2300</u>	TIME <u>0500</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>Davis</u>	<u>59179</u>	<u>H20041</u>
<u>Colore</u>	<u>52938</u>	<u>Liberal Ks</u>
<u>B. M. J. Tex</u>	<u>H2308</u>	<u>50733</u>
	<u>75051</u>	<u>11</u>
	<u>75017</u>	<u>Hegerton Ks</u>

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR <u>8^{5/8} In. Float</u>	<u>1</u>	<u>Hawco</u>
FLOAT SHOE <u>Flip</u>	<u>1</u>	
GUIDE SHOE <u>P₂</u>	<u>1</u>	
CENTRALIZERS	<u>3</u>	
BOTTOM PLUG		
TOP PLUG	<u>1</u>	
HEAD	<u>1</u>	
PACKER		
OTHER		

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. RFD. AGENT TYPE _____ GAL.-LB. _____ IN
 BREAKER TYPE _____ GAL.-LB. _____ IN
 BLOCKING AGENT TYPE _____ GAL.-LB. _____
 PERFPAC BALLS TYPE _____ QTY. _____
 OTHER _____
 OTHER _____

DEPARTMENT Central
DESCRIPTION OF JOB 8^{5/8} Surface

JOB DONE THRU: TUBING CASING ANNULUS TBG. ANN.

CUSTOMER REPRESENTATIVE X TADAVI'S

HALLIBURTON OPERATOR Dennis Clark COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<u>12.5</u>	<u>MidCont 2#</u>			<u>3% CC 1/2 #/sk Flocel</u>	<u>3.27</u>	<u>11.1</u>
	<u>100</u>	<u>Prem Plus</u>			<u>2% CC 1/4 # Flocel</u>	<u>1.32</u>	<u>14.8</u>
	<u>100</u>	<u>Prem Plus</u>			<u>2% CC</u>	<u>1.32</u>	<u>14.8</u>

PRESSURES IN PSI

SUMMARY

VOLUMES

CIRCULATING _____ DISPLACEMENT _____ PRESLUSH: BBL.-GAL. _____ TYPE _____
 BREAKDOWN _____ MAXIMUM _____ LOAD & BKDN: BBL.-GAL. _____ PAD: BBL.-GAL. _____
 AVERAGE _____ FRACTURE GRADIENT _____ TREATMENT: BBL.-GAL. _____ DISPL: BBL.-GAL. 36.88
 SHUT-IN: INSTANT _____ 5-MIN _____ 15-MIN _____ CEMENT SLURRY: BBL.-GAL. 95.18
 HYDRAULIC HORSEPOWER _____ TOTAL VOLUME: BBL.-GAL. 1' cut / 23.30
 ORDERED _____ AVAILABLE _____ USED _____ REMARKS _____
 AVERAGE RATES IN BPM _____
 TREATING _____ DISPL. _____ OVERALL _____
 FEET 4340 REASON Spec. Job
 CEMENT LEFT IN PIPE _____

CUSTOMER: _____ DATE: _____

JOB LOG HAL-2013-C

CUSTOMER Flanagan - Vaughn WELL NO. 2-28 LEASE Are Kokomo JOB TYPE 8 1/2 SURFACE TICKET NO. 106290

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1700							Time Collected
	2200							Time Ready
	2205							Time in hole
	2215							Start Pumping Casing
	2300							Hook Up To Cerebrate Casing
	2310							Cerebrate Casing w/ pump
	2312							Cerebrate Mud To Second Launch
	2330							Hook Up To Pump Truck
	2333	6						Start Mixing Cement
	2345		71.68					Start Tail Cement
	2348		23.50					Finish Mixing Cement
	2349		95.18					Set Down Damp Plug
	2350	5						Start Displacement
		36.48	36.88					wash Pumps + Lines
	2400							150/350 Plug Down
								Flrost Held
								Cerebrate Fluid. Then out The Job
								Did not see Cement Order 200 ^{SK} 2 1/2
	0400							Cement on hole
	0415							Run 1" pipe in hole
	0430							Hook up to 1" Tag Cement at 55 ST
	0435	2						Start Mix Cement 100 ^{SK} Pumping 2 1/2
	0438		23.50					Finish Mixing Cement
	0439							Set Down Cement ✓
	0440							Set Down Breaker + wash up Pumps + lines
	0500							Finish w/ job
								Thanks For Calling
								Halliburton Dennis Coble + Energy Cowan