

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

API NO. 15- 203-201240000

ORIGINAL

County Wichita

 NW SE SW Sec. 34 Twp. 20S Rge. 38 E
 X V

740 Feet from (S) (circle one) Line of Section

1780 Feet from (W) (circle one) Line of Section

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

Lease Name Caldwell "C" Well # 4

Field Name Rupp

Producing Formation Morrow

Elevation: Ground 3406 KB 3411

Total Depth 5000 PSTD 4949

Amount of Surface Pipe Set and Cemented at 298 Feet

Multiple Stage Cementing Collar Used? Yes X No

If yes, show depth set Feet

If Alternate II completion, cement circulated from

feet depth to w/ sz cat.

Drilling Fluid Management Plan AH.2 9-8-98 OK
(Data must be collected from the Reserve Pit?)

Chloride content 34000 ppm Fluid volume 1140 bbls

Dewatering method used Evaporation

Location of fluid disposal if hauled offsite:

Operator Name

Lease Name License No.

 Quarter Sec. Twp. S Rng. E/W

County Docket No.

Operator: License # 6568

Name: Kaiser-Francis Oil Company

Address P. O. Box 21468

City/State/Zip Tulsa, OK 74121-1468

Purchaser: Texaco Trading & Transp.

Operator Contact Person: Charlotte Van Valkenburg

Phone (918) 491-4314

Contractor: Name: Murfin Drilling Company

License: n/a

Wellsite Geologist: Harold R. Trapp

Designate Type of Completion

 New Well Re-Entry Workover

X 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:

n/a 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.

2-13-97 2/20/97 3/14/97
Spud Date Date Reached TD Completion Date

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-6 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 Charlotte Van Valkenburg
Title Technical Coordinator Date 8/19/97

Subscribed and sworn to before me this 19th day of August, 19 97.

Notary Public ROL J. HALL
Date Commission Expires 07 25 2001

08-21-97

K.C.C. OFFICE USE ONLY		
F	<input checked="" type="checkbox"/>	Letter of Confidentiality Attached
C	<input checked="" type="checkbox"/>	Wireline Log Received
C	<input checked="" type="checkbox"/>	Geologist Report Received
Distribution		
<input type="checkbox"/>	KCC	<input type="checkbox"/>
<input type="checkbox"/>	KGS	<input type="checkbox"/>
<input type="checkbox"/>	SWD/Rep	<input type="checkbox"/>
<input type="checkbox"/>	Plug	<input type="checkbox"/>
<input type="checkbox"/>	NGPA	<input type="checkbox"/>
<input type="checkbox"/>	Other	<input type="checkbox"/>
(Specify)		

Operator Name Kaiser-Francis Oil Company Lease Name Caldwell "C" Well # 4
 Sec. 34 Twp. 20S Rge. 38 East County Wichita
 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.) See geological Rept.
 Samples Sent to Geological Survey Yes No
 Cores Taken Yes No
 Electric Log Run Yes No
 (Submit Copy.)
 List All E.Logs Run:
 HR-DIFL-GR, CD-CN-GR, SBL-GR

Log Formation (Top), Depth and Datum Sample

Name	Top	Datum
Marmaton	4388	
Cherokee Shale	4524	
Morrow Shale	4754	
Up. Morrow Sst.	4764	
St. Genevieve	4900	

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	298	Lite	200	-
Production	7 7/8	5 1/2	15.5	5000	Prem +	280	n/a
DV tool				1127	Prem	120	n/a

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				

PERFORATION RECORD - Bridge Plugs Set/Type
 Specify Footage of Each Interval Perforated

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	4768' - 4776', 4781' - 4784'	750 g. 7 1/2% FE	4768-4784

TUBING RECORD

Size	Set At	Packer At	Liner Run
2 3/8	4789	-	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Date of First, Resumed Production, SWD or Inj. 3/20/97 Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	52	0	0	-	32.

Disposition of Gas: None
 Vented Sold Used on Lease (If vented, submit ACO-18.)
METHOD OF COMPLETION
 Open Hole Perf. Dually Comp. Complet
 Other (Specify)

Production Interval
 768-4784
ORIGINAL

ORIGINAL



REMIT TO:
P.O. BOX 951046
DALLAS, TX 75395-1046
Corporate FIN 73-0271280

INVOICE

HALLIBURTON ENERGY SERVICES
A Division of Halliburton Company

INVOICE NO.	DATE
196175	02/13/1997

WELL LEASE NO./PROJECT	WELL/PROJECT LOCATION	STATE	OWNER
CALDWELL "C" 4	WICHITA	KS	SAME
SERVICE LOCATION	CONTRACTOR	JOB PURPOSE	TICKET DATE
HAYS	MURFIN DRILLING	SHOWN BELOW	02/13/1997
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER
462760	JOHN GLENN		
			SHIPPED VIA
			COMPANY TRUCK
			FILE NO.
			20524

ORIGINAL

KAISER FRANCIS OIL CO
515 EAST 3RD
ELLINWOOD, KS 67526

DIRECT CORRESPONDENCE TO:
1102 E. 8TH
HAYS KS 67601
913-625-3431

REFERENCE NO.	DESCRIPTION	QUANTITY	UM	UNIT PRICE	AMOUNT
	*- KANSAS STATE SALES TAX				136.74
	*- HAYS CITY SALES TAX				27.92

FEB 19 1997

LEASE Caldwell #4

REPAIR OR REPLACEMENT

NEW INSTALLATION

ACCOUNT CHARGE 524

APPROVED BY John Glenn

LEASE 927110

EXP. 524

NAME CALD

BY MM

INVOICE TOTAL - PLEASE PAY THIS AMOUNT =====> \$3,834.20

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ORIGINAL



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DALLAS, TX 75395-1046
Corporate FIN 73-0271280

INVOICE

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A Division of Halliburton Company

INVOICE NO.	DATE
196175	02/13/1997

WELL LEASE NO./PROJECT		WELL/PROJECT LOCATION		STATE	OWNER
CALDWELL "C" 4		WICHITA		KS	SANE
SERVICE LOCATION		CONTRACTOR	JOB PURPOSE		TICKET DATE
HAYS		MURFIN DRILLING	SHOWN BELOW		02/13/1997
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.
442760	JOHN GLENN			COMPANY TRUCK	20524

DIRECT CORRESPONDENCE TO:

KAISER-FRANCIS OIL CO
515 EAST 3RD
ELLINWOOD, KS 67526

1102 E. 8TH
HAYS KS 67601
913-625-3431

ORIGINAL

REFERENCE NO.	DESCRIPTION	QUANTITY	UM	UNIT PRICE	AMOUNT
PRICING AREA - MID CONTINENT					
JOB PURPOSE - CEMENT SURFACE CASING					
000-117	MILEAGE CEMENTING ROUND TRIP	140	MI	2.99	418.60
		1	UNT		
000-119	MILEAGE FOR CREW	140	MI	1.60	224.00
		1	UNT		
001-016	CEMENTING CASING	306	FT	650.00	650.00
		1	UNT		
120	GUIDE SHOE - Ø 5/8" ØRD THD.	1	EA	216.00	216.00 *
825-217					
244	INSERT FLOAT VALVE - Ø 5/8" ØRD	1	EA	221.00	221.00 *
815-19502					
27	FILL-UP UNIT 7" - Ø 5/8"	1	EA	64.00	64.00 *
816-19411					
40	CENTRALIZER-Ø-5/8 X 12-1/4	3	EA	80.00	240.00 *
806-60059					
350	HALLIBURTON WELD A	1	EA	16.75	16.75 *
890-10802					
030-016	CEMENTING PLUG SW ALUM TOP	Ø 5/8	IN	120.00	120.00 *
		1	EA		
504-316	CEMENT - HALL. LIGHT STANDARD	115	SK	9.11	1,047.65 *
504-308	CEMENT STANDARD	85	SK	10.83	920.55 *
504-106	ANHYDROUS CALCIUM CHLORIDE	4	SK	40.75	163.00 *
504-210	FLOCELE	29	LB	1.65	47.85 *
504-207	BULK SERVICE CHARGE	210	CFT	1.35	283.50 *
504-306	MILEAGE CNTG MAT DEL OR RETURN	641.025	THI	1.05	673.08 *

INVOICE SUBTOTAL

DISCOUNT - (BID)
INVOICE BID AMOUNT

5,305.98
1,636.44-
3,669.54

***** CONTINUED ON NEXT PAGE *****

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 DALLAS, TX 75395-1046
 Corporate FIN 73-0271280

JICE

HALLIBURTON ENERGY SERVICES
 A Division of Halliburton Company

INVOICE NO.	DATE				
185170	02/22/1997				
WELL LEASE NO./PROJECT	WELL PROJECT LOCATION	STATE	OWNER		
CALDWELL C-4	WICHITA	KS	SAME		
SERVICE LOCATION	CONTRACTOR	JOB PURPOSE	TICKET DATE		
LIBERAL	MURFIN DRILLING	SHOWN BELOW	02/22/1997		
ACCT. NO.	CUSTOMER AGENT	VENT. ORG.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.
462760	JOHN GLENN			COMPANY TRUCK	20778

ORIGINAL

DIRECT CORRESPONDENCE TO:

KAISER-FRANCIS OIL CO
 515 EAST 3RD
 ELLINWOOD, KS 67526

P O BOX 1598
 LIBERAL KS 67901

REFERENCE NO.	DESCRIPTION	QUANTITY	UM	UNIT PRICE	AMOUNT
PRICING AREA - MID CONTINENT					
JOB PURPOSE - CEMENT PRODUCTION CASING					
000-117	MILEAGE CEMENTING ROUND TRIP	140	MI	2.99	418.60
		1	UNT		
	DISCOUNT-(BID)	32.0	%		133.95-
000-119	MILEAGE FOR CREW	140	MI	1.60	224.00
		1	UNT		
	DISCOUNT-(BID)	32.0	%		71.68-
007-013	MULT STAGE CEMENTING-1ST STAGE	4994	FT	1,820.00	1,820.00
001-016		1	UNT		
	DISCOUNT-(BID)	32.0	%		582.40-
007-161	MULT STAGE CEMENTING-ADD STAGE	1	STG	1,550.00	1,550.00
		1	UNT		
	DISCOUNT-(BID)	32.0	%		496.00-
26	INSERT VALVE F. S.- 5 1/2" BRD	1	EA	350.00	350.00 *
847.6318					
	DISCOUNT-(BID)	22.0	%		77.00-
27	FILL-UP UNIT 5 1/2"-6 5/8"	1	EA	69.00	69.00 *
815.19311					
	DISCOUNT-(BID)	22.0	%		15.18-
40	CENTRALIZER-5-1/2 X 7-7/8	15	EA	60.00	900.00 *
806.60022					
	DISCOUNT-(BID)	22.0	%		198.00-
66	CLAMP-LIMIT-5 1/2-FRICT-W/DOGS	1	EA	16.00	16.00 *
806.72730					

***** CONTINUED ON NEXT PAGE *****

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 Corporate FIN 73-0271280

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 A Division of Halliburton Company

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185170	02/22/1997

WELL LEASE NO./PROJECT	WELL/PROJECT LOCATION	STATE	OWNER		
CALDWELL C-4	WICHITA	KS	SAME		
SERVICE LOCATION	CONTRACTOR	JOB PURPOSE	TICKET DATE		
LIBERAL	MURFIN DRILLING	SHOWN BELOW	02/22/1997		
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.
462760	JOHN GLENN			COMPANY TRUCK	20778

ORIGINAL

DIRECT CORRESPONDENCE TO:

KAISER-FRANCIS OIL CO
 515 EAST 3RD
 ELLINWOOD, KS 67526

P O BOX 1598
 LIBERAL KS 67901

REFERENCE NO.	DESCRIPTION	QUANTITY	UM	UNIT PRICE	AMOUNT
	DISCOUNT-(BID)	22.0 %			3.52-
71	CEMENTER-TYPE P ES 5-1/2 BRD	1 EA		2,450.00	2,450.00 *
813.56325	DISCOUNT-(BID)	22.0 %			539.00-
75	PLUG SET - FREE FALL - 5-1/2 8	1 EA		840.00	840.00 *
813.16511	DISCOUNT-(BID)	22.0 %			184.80-
320	BASKET-CMT-5 1/2 CSG X 17"OD-	1 EA		104.00	104.00 *
806.71430	DISCOUNT-(BID)	22.0 %			22.88-
350	HALLIBURTON WELD-A	1 EA		16.75	16.75 *
890.10802	DISCOUNT-(BID)	22.0 %			3.68-
504-282	MIDCON-2 PREMIUM PLUS CEMENT	250 SK		17.06	4,265.00 *
	DISCOUNT-(BID)	32.0 %			1,364.80-
504-050	CEMENT - PREMIUM PLUS	50 SK		14.01	700.50 *
	DISCOUNT-(BID)	32.0 %			224.16-
504-043	CEMENT - PREMIUM	100 SK		13.70	1,370.00 *
	DISCOUNT-(BID)	32.0 %			438.40-
509-406	ANHYDROUS CALCIUM CHLORIDE	6 SK		40.75	244.50 *
	DISCOUNT-(BID)	32.0 %			78.24-
508-095	VERSASET	71 LB		3.90	276.90
	DISCOUNT-(BID)	32.0 %			88.60-

***** CONTINUED ON NEXT PAGE *****

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A Division of Halliburton Company

P.O. BOX 951046
DALLAS, TX 75395-1046
Corporate FIN 73-0271280

INVOICE NO.	DATE
185170	02/22/1997

WELL LEASE NO./PROJECT		WELL PROJECT LOCATION		STATE	OWNER
CALDWELL C-4		WICHITA		KS	SAME
SERVICE LOCATION		CONTRACTOR	JOB PURPOSE		TICKET DATE
LIBERAL		MURFIN DRILLING	SHOWN BELOW		02/22/1997
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.
462760	JOHN GLENN			COMPANY TRUCK	20778

ORIGINAL

DIRECT CORRESPONDENCE TO:

KAISER-FRANCIS OIL CO
515 EAST 3RD
ELLINWOOD, KS 67526

P O BOX 1598
LIBERAL KS 67901

REFERENCE NO.	DESCRIPTION	QUANTITY	UM	UNIT PRICE	AMOUNT
508-002	POTASSIUM CHLORIDE DISCOUNT-(BID)	307 LB 32.0 %	LB	.27	82.89 * 26.52-
507-775	HALAD-322 DISCOUNT-(BID)	56 LB 32.0 %	LB	7.00	392.00 * 125.44-
508-291	GILSONITE BULK DISCOUNT-(BID)	500 LB 32.0 %	LB	.40	200.00 * 64.00-
018-315	MUD FLUSH DISCOUNT-(BID)	500 GAL 32.0 %	GAL	.65	325.00 — 104.00-
500-207	BULK SERVICE CHARGE DISCOUNT-(BID)	435 CFT 32.0 %	CFT	1.35	587.25 * 187.92-
500-306	MILEAGE CMTG MAT DEL OR RETURN DISCOUNT-(BID)	1397.37 TMI 32.0 %	TMI	1.05	1,467.24 * 469.51-

JOB PURPOSE SUBTOTAL

FEB 27 1997

INVOICE SUBTOTAL

DISCOUNT-(BID)
INVOICE BID AMOUNT

- *-KANSAS STATE SALES TAX
- *-LIBERAL CITY SALES TAX
- *-SEWARD COUNTY SALES TAX

LEASE Caldwell

REPAIR OR ALUMINUM CHANGE
REPLACEMENT 624

BY John Glenn

LEASE	NAME
927110	CALD
EXP.	BY
624	mm

INVOICE TOTAL - PLEASE PAY THIS AMOUNT

18,669.63

18,669.63

5,499.68-

13,169.95

491.57

100.31

150.51

\$13,912.34

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Charlotte N. Capp
<<certified petroleum geologist>>

212 N. Market #414 Wichita, Kansas 67202 (316) 262-7111
Prospect generation : Geological wellsite evaluation : Prospect screening : KCC & geological library research.



ORIGINAL

**WELLSITE
GEOLOGICAL REPORT
for
KAISER FRANCIS OIL CO.**

**Caldwell "C" #4
Section 34-20S-38W
Wichita County, Kansas
15-203-20124-00-00**

[Faint, tilted text, possibly a stamp or signature]

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Formation Tops and Correlation	4
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Deviation Surveys	5
Mud Record	5
Bit Record	5

SALE C. 12/1/11
12/1/11

SUMMARY AND CONCLUSIONS

The Caldwell "C" #4 was drilled to a driller's total depth of 5000'. The well was drilled as a replacement for the Cameron Funk & Co. Caldwell "C" #2. Principal objectives were sandstones of the Morrowan in the Lower Pennsylvanian.

The well was spud on February 13, 1997 and a production string was set on February 22, 1997.

SUMMARY OF ZONES OF INTEREST

Samples were described in the Caldwell "C" #4 from 4650' to the total depth of 5000'. There were **two oil shows** observed in the samples. The zones containing the shows are considered zones of interest and are discussed below.

Morrow:

The Morrow Shale was encountered at a depth of 4754' (-1343'), one foot high to the comparison well (Cameron Funk & Co. Caldwell "C" #2, 100' NW of the CSE SW of section 34-20S-38W). In the comparison well, a 16' sand that was found 18' under the Morrow Shale helped produce over 270,000 barrels of oil (along with one other well). That sand in the Caldwell "C" #4 was 22' thick and was found only 10' below the top of the Morrow Shale at a depth of 4764'(-1353'), nine feet high to the Caldwell "C" #2.

The logs reveal 13' of net porosity, ranging from 18 to 21% porosity and 24 to 36 ohms.

A very slight show of oil was described in the upper part of the sand, probably only slight because of a severe lack of sandstone clusters. When a fair representation of the sand was observed in the trays, a fair to good show was described. The fair to good intercrystalline porosity with a faint yellow fluorescence and a faint, slow yellow cut and a slight odor was observed in a very fine-grained, friable, fair sorted, tan (stained) sandstone. There were many unconsolidated medium to coarse, sub-rounded quartz grains in the bottom of the tray.

DST #1 (4731-4850') evaluated the sandstone. The blow in the first open blew off the bottom of the bucket in 5 minutes. There was a strong blowback off the bottom of the bucket in 15 minutes in the initial shut-in period. The blow was exactly the same in the second flow period and the blowback in the second shut-in differed only in that it took 20 minutes to blow off the bottom of the bucket.

Recovery was 1265' of fluid, consisting of 744' of clean gassey oil (20% gas), 310' of mud cut gassey oil (10% gas, 10% mud), and 211' of mud cut gassey oil (10% gas, 30% mud). The oil was 32 degrees API gravity.

Flow pressures were 124-300 pounds and 346-484 pounds and the shut-in pressures were 861 to 854 pounds

SEARCHED
SERIALIZED
INDEXED
FILED

Lower Morrow:

15-203-20124-00-00

A slight show of oil was described in a ten foot thick limestone encountered at a depth of 4870'. The show consisted of a dark brown stain, with no fluorescence, but with an instant dull yellow cut, and some black, dead oil. The show was found in vuggy porosity of a gray, dense, hard limestone.

CONCLUSIONS

The sand was 6' thicker and 9' higher than in the Caldwell "C" #2 and the DST revealed that after over 262,000 barrels of oil had been extracted from the reservoir in the last 20 years, the pressure has only been drawn down from 1125# to 850#. That's nothing! The reservoir is a big reservoir and needs another hole or two drilled into it.

A Production string was set on the Kaiser Francis Caldwell "C" #4 on February 22, 1997.

STATE OF TEXAS
COUNTY OF [illegible]
[illegible]
[illegible]

15-203-20124-00-00

WELL RESUME

Operator: Kaiser Francis Oil Co.
Well Name: Caldwell "C" #4
Location: 740' FSL and 1780' FWL Section 34-20S-38W
Field: Rupp Field
County: Wichita
State: Kansas
Spud Date: 2/13/97
TD Date: 2/21/97
Elevations: GR 3406' KB 3411'
Total Depth: 5000' (Driller) 5000' (Logger)
Contractor: Murfin Drilling Company, Inc. Rig #8
Tool Pusher: Louis (Ed) McKenna
Wellsite Geologist: Harold R. Trapp
Company Man: John Glenn/Drew Tyler
Mud Company: Mud-Co.
Mud Engineer: Tony Maestas
Type Drilling Mud: Gel & Chemicals
Pump: National - K380 5 1/2 x 14
Hole Size: 12 1/4" to 306', 7 7/8" to total depth.
Casing: 8 5/8" set at 306'
Gas Detection: none
Cores: none
DST's: DST #1 (4731-4850')
DST's by: Trilobite Testing
Electric Logs by: Atlas Wireline Services, Inc.
Logs Ran: Dual Induction, Compensated Neutron/Density
Bottom Hole Formation: Mississippian

SHAW-WALKER
1997

15-203-2024-00-00

Formation Tops and Correlation						
	Cameron Funk & Co.			Kaiser Francis Oil Co.		
	Caldwell "C" #2			Caldwell "C" #4		
Kelly Bushing	3410			3411		
	log tops			is	log tops	
				high/low		
				to		
Marmaton	4390	-980		3	4388	-977
Cherokee Shale	4524	-1114		1	4524	-1113
Morrow Shale	4754	-1344		1	4754	-1343
Upper Mrw. Sst.	4772	-1362		9	4764	-1353
St. Genevieve	4900	-1490		1	4900	-1489
Total Depth	4950	-1540			5000	-1589

Daily Chronology			
Date	7:00am Depth	24 Hour Footage	Activity Past 24 Hours
2/13/97	-		Dig ditches and rig up yard
2/14/97	306	306	Move and rig up, mix mud, drill rat hole, drill surface hole, condition hole for surface casing, set 297' of 8 5/8" casing @ 306', cement, wait on cement
2/15/97	2270	1964	Wait on cement, drill plug and cement, check rig, drill, clean pits
2/16/97	3070	800	Service rig, drill, lost returns @ 2827' (approx. 150 bbl), trip for bit, change bit out, drill
2/17/97	3505	435	Service rig, drill, replace liner and head, jet and clean pits, lost circulation @ 3294' (approx. 80 bbl), tite connection @ 4366'
2/18/97	4030	525	Service rig, drill, clean suction pit, displace mud, completed displacement at 3798'
2/19/97	4475	445	Service rig, drill, check pump valves, replace head and rod, jet #1
2/20/97	4775	300	Service rig, drill, circulate for samples, short trip, condition hole, drill
2/21/97	4860	85	Service rig, drill, circulate for samples, trip out for DST #1, strap pipe pipe, pick up test tool, run in hole and run DST #1, out of hole with tool, back in hole, condition hole, drill
2/22/97	5000	140	Drill, circulate for samples, condition hole for logs, run logs, go back in hole to condition to run casing
2/23/97	5000		Run 5 1/2" production string

Stamp: SHAW-WALKER ENGINEERING & CONSULTING

Mud Record																
Date	Depth	Weight	Viscosity	Wtr. Loss	Cake	Cl (mg/l)	pH	Sol	Wtr.	Oil	PV	YP	Geis	LCM	Cost	Cumulative Cost
2/14/97	391	8.4	27	-	-	100	1.0	0.1	-	-	-	-	-	-	\$259.50	\$259.50
2/16/97	3125	9.8	35	-	-	105,000	-	4.4	95.6	-	7	12	6/12	2	\$2,065.94	\$2,325.44
2/17/97	3561	9.8	32	nc	nc	70,000	7.0	6.5	93.5	0	3	6	3/8	1	\$1,115.35	\$3,440.79
2/18/97	3932	8.8	40	12.0	1	5,000	10.5	3.5	96.5	0	10	14	9/17	1	\$637.40	\$4,078.19
2/19/97	4522	9.3	40	15.2	1	6,000	10.0	6.8	93.2	0	11	16	10/18	trc	\$790.44	\$4,868.63
2/20/97	4850	9.3	46	9.6	1	5,000	10.0	6.9	93.1	0	12	20	12/26	trc	\$1,289.24	\$6,157.87
2/21/97	4947	9.3	47	9.6	1	6,500	10.0	6.7	93.3	0	12	20	12/25	trc	\$0.00	\$6,157.87

Bit Record							
#	Size	Mfg.	Type	Depth In	Depth Out	Footage	Hours
1	12 1/4"	HTC	JIS	0	306	306	3 1/2
2	7 7/8"	HTC	ATJ 05	306	2933	2627	31 3/4
3	7 7/8"	HTC	GTA 30	2933	5000	2067	100 3/4

Deviation Surveys			
Footage	Degrees	Footage	Degrees
2933	3/4	5000	3/4
4850	3/4		

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