

Operator Name Chief Drilling Co., Inc. Lease Name..... FRANZ Well #..... 1

Sec..... 18..... Twp..... 10S..... Rge..... 32..... East West County..... Thomas.....

WELL LOG

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
 Samples Sent to Geological Survey Yes No
 Cores Taken Yes No

Formation Description
 Log Sample

B-27-86 DST #1 4200 - 4272 (Lans. 140-160)
 30-45-60-60 IF: fair blow, FF: fair blow
 Rec. 650' SW, chl. 41,000 ppm IBHP: 1336#
 FBHP: 1318# IFP: 116-169 FFP: 214-348
 B-28-86 Drilling @ 4310' DST #2 4260-4330 Lansing
 180-200 30-30-30 IF: wk bl died in 21"
 Rec. 20' M, IBHP: 1237# FBHP: 1237# IFP:
 80-80 FFP: 80-80
 B-29-86 Drilling @ 4500' DST #3 4590-4640 (Johnson)
 30-30-30-30 IF: wk bl died in 20", Rec. 25'
 OM, (19% O, 80% M, tr W) IBHP: 89# FBHP: 89#
 IFP: 62-62 FFP: 62-62
 B-30-86 Drilling @ 4680 RTD 4710, Ran E-log, Plugged
 w/20 sks 60/40 posmix 6% gel, 3% cc, 1 bag
 celloflake, 8 5/8 plug 1 bag hulls, 1st
 plug @ 2640 w/30 sks, 2nd plug 1810' w/100
 sks, 3rd plug @ 350' w/40 sks, 40'-0' w/10
 sks, 15 sks RH, 10 sks MH, started 4:00 pm
 finished 8:00 pm

Name	Top	Bottom
FORMATION TOPS:		
Anhydrite	2621 +	496
B/Anhydrite	2649 +	468
Topeka	3798 -	681
Heebner	4025 -	908
Toronto	4045 -	928
Lansing	4070 -	953
Muncie Cr.	4206 -	1089
Stark	4290 -	1173
BKC	4353 -	1236
Marmaton	4382 -	1265
Pawnee	4481 -	1364
Ft. Scott	4541 -	1424
Ch. Shale	4568 -	1451
Mississippi	4657 -	1540
RTD	4710 -	1593
E-LOG TOPS:		
Anhydrite	2621 +	496
Base Anhydr	2649 +	468
Topeka	3808 -	691
Heebner	4025 -	908
Toronto	4047 -	930
Lansing	4070 -	953
Muncie Cr.	4205 -	1088
Stark	4289 -	1172
Base K.C.	4353 -	1236
Marmaton	4383 -	1266
Pawnee	4483 -	1366
Ft. Scott	4542 -	1425
Ch. Shale	4570 -	1453
Mississippi	4658 -	1541
LTD	4713 -	1596

Well Log

Sand/Clay	0	1450
Shale	1450	2621
Anhydr.	2621	2649
Shale	2649	4289
Lime	4289	4710
RTD	4710	

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"	20#	324'	60/40	190	.2% gel .3% cc
.....
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PERFORATION RECORD		Acid, Fracture, Shot, Cement Squeeze Record	
Shots Per Foot	Specify Footage of Each Interval Perforated	(Amount and Kind of Material Used)	Depth
.....
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.....
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TUBING RECORD Size Set At Packer at Liner Run Yes No

Date of First Production Producing Method Flowing Pumping Gas Lift Other (explain).....

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18-10 32W

CHIEF DRILLING CO., Inc.

Drilling Contractors - Oil Producers

151 N. MAIN BUILDING

SUITE 700

WICHITA, KANSAS 67202

V. RICHARD HOOVER

PRESIDENT

(316) 262-3791

DAILY DRILLING REPORT

API: 15-193-20,414

RIG #2

FRANZ #1 (2460)
SW SW SW 18-10S-32W
THOMAS CO., KS.

ELEVATIONS:

3110 GR
3115 DF
3117 KB

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8-21-86 Moving in on location

8-22-86 Finish moving in on location

8-23-86 Spudded in @ 4:00 pm, ran 8 jts, new 20#
8 5/8" csg 321' set @ 324', cem w/190 sks
60/40 posmix, 2% gel, 3% cc, plug down @

8-24-86 9:30 pm, drilling out plug @ 4:30 am

8-24-86 Drilling @ 692' 7:00 am

8-25-86 Drilling @ 2655'

8-26-86 Drilling @ 3400'

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