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*31-11-18W PL*

WELL LOG

**State Geological Survey**  
**WICHITA, BRANCH**

OPERATOR: Kaiser-Francis Oil Company

WELL NAME: Johnson 'F' #5 LOCATION: NE NE NE 31-11s-18W

COUNTY: Ellis STATE: Kansas

WELL COMMENCED: January 23, 1981 WELL COMPLETED: February 2, 1981

ELEVATION: 2086' K.B. TOTAL DEPTH: 3663'

PRODUCTION: D & A RIG NO: #3

CASING - 8 5/8": 7Jts. new 28# Tallied @277.17' Set @ 285.17' Cemented with 175 sxs common 2% gel 3% cc cement did circ

5 1/2": Ran 104 Jts. 14# and 15 1/2# used Tally @3655' Set @3549' cemented with: 1st Stage, 250 sxs 50-50poz 18% salt 2nd Stage, 350 sxs 50-50 poz 6%gel PD@

ALL MEASUREMENTS TAKEN FROM THE TOP OF ROTARY BUSHING: 9:45 P.M.

FROM	TO	FORMATION	DEVIATION FROM VERTICAL	REMARKS:
0'	72'	post rock lime and shale		
72'	285'		285' - 3/4 - degree	
285'	292'			
292'	1151'	sand and shales		
1151'	1345'	shales and sand		
1345'	1405'	shale and lime		
1405'	1441'	Anhydrite		
1441'	1542'	shale and lime	1523' - 1 - degree	
1542'	2052'	shales		
2052'	2360'	shales		
2360'	2449'	shales	2375' - 3/4 - degree	
2449'	2636'	shales and lime		
2636'	2649'	shale and lime		
2649'	2793'	shale and lime		
2793'	2939'	shales and lime		
2939'	3057'	lime and shale		
3057'	3142'	lime and shale	3142' - 1 - degree	
3142'	3229'	lime		
3229'	3423'	lime		
3423'	3488'	lime		
3488'	3567'	lime		
3567'	3619'	lime	3619' - 1/2 - degree	
3619'	3663'	Arbuckle		
3663'	RTD			

*[Faint stamp]*

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*[Faint stamp]*

STATE OF KANSAS  
COUNTY OF

The undersigned hereby certifies that to the best of his knowledge and belief, the above facts are true and correct