

Date 12-8-14 District Oakley KS Ticket No. 64370  
 Company Barexco Rig Beredco1  
 Lease HT A Well No. 1-16  
 County Finney State KS  
 Location 16-23-32 Field Jenny Barker Rd  
 Garden City 6 mile Rd, E to Jenny Barker Rd  
 CASING DATA: Conductor  PTA  Squeeze  Misc   
 Surface  Intermediate  Production  Liner   
 Size 5 1/2 Type New Weight 15.5# Collar Bottom Stage

Casing Depths: Top K.B Bottom 49691

Drill Pipe: Size 7 7/8 Weight 4975 Collars T.D.  
 Open Hole: Size 7 7/8 T.D. 4975 ft. P.B. to ft.

CAPACITY FACTORS:  
 Casing: Bbls/Lin. ft. 10238 Lin. ft./Bbl. ft.  
 Open Holes: Bbls/Lin. ft. ft. Lin. ft./Bbl. ft.  
 Drill Pipe: Bbls/Lin. ft. ft. Lin. ft./Bbl. ft.  
 Annulus: Bbls/Lin. ft. ft. Lin. ft./Bbl. ft.  
 Perforations: From ft. to ft. Amt. ft.

CEMENT DATA:  
 Spacer Type: ft<sup>3</sup>/sk Density PPG  
 Amt. ft<sup>3</sup>/sk Density PPG

LEAD: Pump Time 69/35 62g hrs. Type ALL Type  
14# 410-900 Excess ft<sup>3</sup>/sk Density PPG  
 Amt. 100 Skys Yield 1.97 ft<sup>3</sup>/sk Density 12.42 PPG

TAIL: Pump Time ASC 10 1/2 1/2 hrs. Type ASC 10 1/2 1/2  
6 1/2 g 1/2 1/2 Excess ft<sup>3</sup>/sk Density PPG  
 Amt. 180 Skys Yield 1.59 ft<sup>3</sup>/sk Density 14.58 PPG

WATER: Lead gals/sk Tail gals/sk Total Bbls.

Pump Trucks Used 393/281 - Wayne  
 Bulk Equip. 564/595 - Juan T.  
870/241 - Jeff

Float Equip: Manufacturer Weatherford / Industrial Rubb  
 Shoe: Type AFU Depth ft.  
 Float: Type Latchdown Plug Depth ft.  
 Centralizers: Quantity 15 Plugs Top ft. Btm. ft.  
 Stage Collars OUT TOOL  
 Special Equip. (2) Baskets  
 Disp. Fluid Type Waterford Amt. 117 Bbls. Weight PPG  
 Mud Type 401 27 Weight PPG

COMPANY REPRESENTATIVE

CEMENTER LaRane

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	
<del>9:30</del> 9:30	<del>1600#</del> 1600#					Hold Safety meeting Pump ball through Circ 1 hr Start Cement 100SKs Lita Weigh Cement 3 times 12.4# Start Cement 180SKs ASC Weigh Cement 3 times 14.5# Stop Cement Washing pump & lines Release plug Start water displacement Stop water Start mud displacement
	0			20.0		
	100#			20.0		
	300#			10.0		
	500#			10.0		
	700#			10.0		
	900#			10.0		
	1100			10.0		
	1300			10.0		
10:30	2300#			7.7		Stop mud. Land plug Land plug Open D/O Tool Circ 3 hrs. Hold Safety meeting