

CEMENTING LOG

Date **11/8/2014** District **Liberal # 21** Ticket No. **64503**
 Company **American Warrior** Rig **Duke 9**
 Lease **Withers** Well No **1-16**
 County **Haskell** State **KS**
 Location _____
 Field _____
 Casing Data Conductor PTA Squeeze Misc.
 Surface Intermediate Production Liner
 Size **4 1/2 drillpipe** Type _____ Weight **16.6#** Collar _____

CEMENT DATA
 Spacer Type _____
 Amt. _____ Sks Yield _____ ft³/sk Density _____ PPG _____
 LEAD: Time _____ hrs. Type **60/40**
4% gel, Excess _____
 Amt. **220** Sks Yield **1.5** ft³/sk Density **13.5** PPG
 TAIL: Time _____ hrs. Type _____
 Excess _____
 Amt. _____ Sks Yield _____ ft³/sk Density _____ PPG
 WATER Lead **7.5** Gal/sk Tail _____ Gal/sk Total **28** BBLs
 Pump Trucks Used: **549-550**
 Bulk Equipment **774-744**

Casing Depths Top _____ Bottom _____

Drill Pipe:	BBLS/LIN. FT	LIN. FT/BBL
Open Hole:	BBLS/LIN. FT	LIN. FT/BBL
Capacity Factors:	BBLS/LIN. FT	LIN. FT/BBL
Casing	BBLS/LIN. FT	LIN. FT/BBL
Open Holes	BBLS/LIN. FT	LIN. FT/BBL
Drill Pipe	BBLS/LIN. FT	0.01422 LIN. FT/BBL
Annulus	BBLS/LIN. FT	LIN. FT/BBL
	BBLS/LIN. FT	LIN. FT/BBL
Perforations	From _____ ft to _____ ft	Amt _____

Float Equipment: Manufacturer _____
 Shoe: Type _____ Depth _____
 Float: Type _____ Depth _____
 Centralizers: Quantity _____ Plugs Top _____ Bottom _____
 Stage Collars _____
 Special Equipment _____
 Disp: Fluid Type **H2O & Mud** Amt _____ bbls Weight _____ PPG
 Mud Type _____ Weight **9.5**

COMPANY REPRESENTATIVE _____ CEMENTER **Edgar A. Rodriguez**

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	PUMPED PER TIME PERIOD	RATE BBLs/MIN	
10:30 pm						Arrive on location. Spot equipment and rig up.
10:30						Rig done running drillpipe
11:00						Safety meeting
11:20						1st plug @1800'
11:25	130		5		1.5	Pump 5 bbls of fresh water
11:28	100		27		4	Pump 100 sks of cmt (27 bbls @13.5)
11:36	80		17.5		3.5	Pump 17.5 bbls of mud displacement
11:41						Come out of hole with drillpipe
12:20 am						2nd plug @870'
12:22	60		13		3.5	Pump 50 sks of cmt (13 bbls @13.5)
12:28	60		9		3.5	Pump 9 bbls of displacement
12:31						Come out of hole with drillpipe
12:50						Rig breaking down for Rat and Mouse hole
1:38						3rd plug @60'
1:40	60		5		3	Pump 20 sks of cmt (5 bbls @13.5)
1:42						Come out of hole with drillpipe
1:45	60		8		2.5	Pump 30 sks of cmt in rat hole
1:49						Come of hole with joint
1:50	60		5		2.5	Pump 20 sks of cmt in mouse hole
1:53						Shutdown / Clean lines and truck
1:54						End job
2:00						Rig down equipment
3:00 am						Crew leave location

FINAL DISP. PRESS. **70** PSI BUMP PLUG TO _____ PSI BLEEDBACK _____ BBLs **THANK YOU**



CEMENTING LOG

Date 11/2/2014 District Liberal # 21 Ticket No. 61672
 Company American Warrior Rig Duke # 9
 Lease withers Well No 1-16
 County Haskell State KS

Location _____
 Field _____

Casing Data Conductor RTA Squeeze Misc.
 Surface Intermediate Production Liner

Size 8 5/8 Type _____ Weight 24 Collar _____

Casing Depths Top _____ Bottom 1654

Drill Pipe: BBLS/LIN. FT _____ LIN. FT/BBL _____
 Open Hole: BBLS/LIN. FT _____ LIN. FT/BBL _____
 Capacity Factors: BBLS/LIN. FT _____ LIN. FT/BBL _____
 Casing BBLS/LIN. FT 0.0637 LIN. FT/BBL _____
 Open Holes BBLS/LIN. FT _____ LIN. FT/BBL _____
 Drill Pipe BBLS/LIN. FT _____ LIN. FT/BBL _____
 Annulus BBLS/LIN. FT 0.0735 LIN. FT/BBL 13.6037
 BBLS/LIN. FT _____ LIN. FT/BBL _____
 Perforations From _____ ft to _____ ft Amt _____

CEMENT DATA

Spacer Type _____ 20 BBL LC SPACER
 Amt. _____ Sks Yield _____ ft³/sk Density _____ PPG

LEAD: Time _____ hrs. Type CLASS A
65/35, 6%GEL, 6%BWOC CC, 0.5# FLOSEAL Excess _____

Amt. 625 Sks Yield 2 ft³/sk Density 12.47 PPG

TAIL: Time _____ hrs. Type CLASS A
3%cc, 1/4 floseal Excess _____

Amt. 200 Sks Yield 1.2 ft³/sk Density 15.63 PPG
 WATER Lead 10.9 Gal/sk Tail 5.2 Gal/sk Total _____ BBLs

Pump Trucks Used: 530-484
 Bulk Equipment 774-744
956-841

Float Equipment: Manufacturer WEATHERFORD
 Shoe: Type GUIDE SHOE Depth 1654
 Float: Type AFU Insert Valve Depth 1613.14
 Centralizers: Quantity 3 Plugs Top 1 Bottom _____
 Stage Collars _____
 Special Equipment 1 Cement Basket @ 900 ft
 Disp: Fluid Type H2O Amt 102.7 bbls Weight 8.34 PPG
 Mud Type _____ Weight _____

COMPANY REPRESENTATIVE _____ CEMENTER CESAR PAVIA

TIME AM/PM	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	PUMPED PER TIME PERIOD	RATE BBLs/MIN	
1230PM						ARRIVE TO LOCATION -- RUN FLOAT EQUIPMENT
300PM						CASING ON BOTTOM
315PM						RIG UP
330PM						SAFETY MEETING
400PM	2000					PRESSURE TEST
410PM	80		5		5	5 BBL H2O
414PM	100		227		5	PUMP 222 BBL OF LEAD SLURRY CEMENT
455PM	120		269.7		5	PUMP 42.7 BBL OF TAIL SLURRY CEMENT
510PM					5	RELEASE PLUG- START DISPLACEMENT, LOST CIRCULATION
520PM	60		289.7		5	20 BBL GONE
525PM	80		309.7		5	40 BBL GONE
528PM	120		329.7		5	60BBLGONE 58 BBL CATCH CEMENT
530PM	300		349.7		5	80 BBL GONE
535PM	350		369.7		3	100 BBL GONE SLOW DOWN TO 3 BPM
540PM	600		372.7		3	102.7 BBL BUMP PLUG
545PM	1200					RELEASE PRESSURE, CHECK FLOATS
						43 BBL CIRCULATE TO SURFACE
600PM						RIG DOWN
630PM						LEAVE LOCATION

FINAL DISP. PRESS. 600 PSI BUMP PLUG TO 1200 PSI BLEEDBACK 1.5 BBLs THANK YOU