ALLIED OIL & GAS SERVICES, LLC

CEMENTING LOG

Date 5/13/2015 District Liberal # 21 Ticket No. 65305
Company American Warrior Rig Duke # 10
Lease haverfield Well No 1-25
County LOGAN State KS
Location
Field

Casing Data ☐ Conductor ☐ PTA ☐ Squeeze ☐ Misc. ☑ Surface ☐ Intermediate ☐ Production ☐ Liner

Size 8 5/8 Type Weight 24 Collar

Casing Depths Top Bottom 439

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 5 bbl water
Amt. Sks Yield ft³/sk Density PPG

LEAD: Time hrs. Type CLASS A
2%GEL, 3%CC,1/4FLOSEAL Excess
Amt. 250 Sks Yield 1.39 ft³/sk Density 14.76 PPG
TAIL: Time hrs. Type
Excess
Amt. Sks Yield ft³/sk Density PPG
WATER Lead 6.5 Gal/sk Tail Gal/sk Total BBLS

Pump Trucks Used: 531-541
Bulk Equipment 956-841

Float Equipment: Manufacturer WEATHERFORD
Shoe: Type GUIDE SHOE Depth 439
Float: Type AFU Insert Valve Depth 396
Centralizers: Quantity 3 Plugs Top 1 Bottom
Stage Collars
Special Equipment
Disp: Fluid Type H2O Amt 25.2 bbls Weight 8.34 PPG
Mud Type Weight

COMPANY REPRESENTATIVE

CEMENTER ALDO ESPINOZA

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
AM/PM	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	PUMPED PER TIME PERIOD	RATE BBLS/MIN	
500AM						ARRIVE TO LOCATION -- RUN FLOAT EQUIPMENT
530AM						RIG UP
930AM						CASING ON BOTTOM
945AM						SAFETY MEETING
1000AM	1000					PRESSURE TEST
1002AM	40		5	5	5	5 BBL WATER SPACER
1005AM	60		67	62	6	PUMP 62 BBL OF SLURRY CEMENT
1023AM					4	RELEASE PLUG- START DISPLACEMENT
1028AM	120		77	10	5	10 BBL GONE
1035AM	200		89	12	5	25 BBL GONE BUMP PLUG
1040AM	900					RELEASE PRESSURE, CHECK FLOATS, GOOD
1100AM						RIG DOWN
1140AM						LEAVE LOCATION
						20 BBL CMENT BACK TO SURFACE

FINAL DISP. PRESS. 200 PSI BUMP PLUG TO 900 PSI BLEEDBACK 0.5 BBLS

THANK YOU

ALLIED OIL & GAS SERVICES, LLC

CEMENTING LOG

Date 5/20/2015 District Liberal # 21 Ticket No. 65308
Company American Warrior Rig Duke # 10
Lease HAVERFIELD Well No 1-25
County LOGAN State KS
Location
Field
Casing Data ☐ Conductor ☑ PTA ☐ Squeeze ☐ Misc. ☐ Surface ☐ Intermediate ☐ Production ☐ Liner
Size 8 5/8 Type Weight 24 Collar

Casing Depths Top Bottom 2440

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	0.044	LIN. FT/BBL	0.05822
	BBLS/LIN. FT		LIN. FT/BBL	

Perforations From ft to ft Amt

CEMENT DATA
Spacer Type 10 bbl water
Amt. Sks Yield ft³/sk Density PPG

LEAD: Time hrs. Type CLASS A
60/40, 4% GEL Excess
Amt. 250 Sks Yield 1.41 ft³/sk Density 13.84 PPG
TAIL: Time hrs. Type
Excess
Amt. Sks Yield ft³/sk Density PPG
WATER Lead 6.8 Gal/sk Tail Gal/sk Total BBLS

Pump Trucks Used: 531-541
Bulk Equipment 993-1066

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

COMPANY REPRESENTATIVE CEMENTER ALDO ESPINOZA

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
AM/PM	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	PUMPED PER TIME PERIOD	RATE BBLS/MIN	
800PM						ARRIVE TO LOCATION
830PM						RIG UP
900PM						SAFETY MEETING
915PM						FIRST PLUG, @ 2440 FT, 10 BBL OF WATER AHEAD, 12.6 BBL OF SLURRY,
						2 BBL OF WATER BEHAIND,27.2 BBL OF DISPLACEMENT W/MUD
1016PM						SECOND PLUG@1200 FT, 25.1 BBL OF SLURRY, 11 BBL OF DISPLACEMENT
1110PM						THIRD PLUG @490FT, 12.6 BBL OF SLURRY,3.9 BBL OF DISPLACEMENT
1140PM						SURFACE PLUG @ 40 FT, WIPER PLUG, 5 BBL OF SLURRY.
1158PM						RAT HOLE, 8 BBL OF SLURRY
1210AM						MOUSE HOLE, 5 BBL OF SLURRY
1238AM						RIG DOWN
145AM						LEAVE LOCATION

FINAL DISP. PRESS. PSI BUMP PLUG TO PSI BLEEDBACK BBLS **THANK YOU**