ALLIED OIL & GAS SERVICES, LLC

CEMENTING LOG

Date 3/6/2015 District Liberal # 21 Ticket No. 65432
Company American Warrior Rig Duke # 10
Lease TIMOTHY Well No 1-22
County Finney 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 1755

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
65/35, 6%GEL, 3%CC,.05-FLOSEAL Excess
Amt. 625 Sks Yield 2 ft³/sk Density 12.46 PPG
TAIL: Time hrs. Type CLASS A
3%cc,,0.25- 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: 531-541
Bulk Equipment 993-1066
956-841

Float Equipment: Manufacturer WEATHERFORD
Shoe: Type GUIDE SHOE Depth 1755
Float: Type AFU Insert Valve Depth 1712
Centralizers: Quantity 3 Plugs Top 1 Bottom
Stage Collars
Special Equipment Cement Basket @ 1054' ft
Disp: Fluid Type H2O Amt 109 bbls Weight 8.34 PPG
Mud Type Weight

COMPANY REPRESENTATIVE

CEMENTER CESAR PAVIA

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
AM/PM	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	PUMPED PER TIME PERIOD	RATE BBLS/MIN	
300AM						ARRIVE TO LOCATION -- RUN FLOAT EQUIPMENT
330AM						RIG UP
530AM						CASING ON BOTTOM
600AM						SAFETY MEETING
615AM	2000					PRESSURE TEST
618AM	40		5		5	5 BBL WATER SPACER
620AM	60		228		6	PUMP 223 BBL OF LEAD SLURRY CEMENT
650AM	80		271		6	PUMP 43 BBL OF TAIL SLURRY CEMENT
710AM					4	RELEASE PLUG- START DISPLACEMENT
712AM	120		291		5	20 BBL GONE
716AM	150		311		5	40 BBL GONE
718AM	420		331		5	60BBLGONE
720AM	500		351		5	80 BBL GONE
724AM	460		371		3	100 BBL GONE SLOW DOWN TO 3 BPM
728AM	500		380		3	109 BBL BUMP PLUG
743AM	1000					RELEASE PRESSURE, CHECK FLOATS
800AM						RIG DOWN
830AM						LEAVE LOCATION
						50 BBL OF CEMENT BACK

FINAL DISP. PRESS. 500 PSI BUMP PLUG TO 1000 PSI BLEEDBACK 0.5 BBLS THANK YOU

ALLIED OIL & GAS SERVICES, LLC

CEMENTING LOG

Date 3/14/2015 District Liberal # 21 Ticket No. 52829
Company AMERICAN WARRIOR Rig DUKE # 5
Lease TIMOTHY Well No 1-22
County FINNEY State KS.
Location
Field
Casing Data ☐ Conductor ☑ PTA ☐ Squeeze ☐ Misc. ☐ Surface ☐ Intermediate ☐ Production ☐ Liner
Size 8 5/8 Type j-55 Weight 24# Collar

Casing Depths Top Bottom 1780 + FT.

Drill Pipe:	BBLS/LIN. FT	0.01422	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	15.698
Open Holes	BBLS/LIN. FT		LIN. FT/BBL	
Drill Pipe	BBLS/LIN. FT		LIN. FT/BBL	
Annulus	BBLS/LIN. FT	0.0406	LIN. FT/BBL	24.63
	BBLS/LIN. FT	0.044	LIN. FT/BBL	22.727

Perforations From ft to ft Amt

CEMENT DATA
Spacer Type 10 bbls h20
Amt. Sks Yield ft³/sk Density 8.34 PPG

LEAD: Time hrs. Type 60/40/4
CLASS A Excess
Amt. 210 Sks Yield 1.5 ft³/sk Density 13.5 PPG
TAIL: Time hrs. Type #VALUE!
Excess
Amt. Sks Yield ft³/sk Density PPG
WATER Lead 7.5 Gal/sk Tail Gal/sk Total 37.5 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 H20 Amt bbls Weight 8.34 PPG
Mud Type Weight

COMPANY REPRESENTATIVE CEMENTER Ruben Chavez

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
AM/PM	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	PUMPED PER TIME PERIOD	RATE BBLS/MIN	
5:00 pm.						Got To Location Spot Trucks, And Rig Up.
6:10						Have A Prejob Safety Meeting
6:30	280		2	2	2	Pump 2 BBls H20 To Fill Pump Lines
6:32	1000					PRESSURE TEST 1000 PSI pumping lines
6:35	280		10	8	5	Start pumping 8 bbls h20 spacer
6:38	270		23.3	13.3	3	Start mixing and pumping 50 sk at 1780 ft; 13.3 bbls slurry
6:43			44.8	21.5	3	Start pumping 2.5 b bls h20 then 19 bbls mud with rig
7:20	250		58.1	13.3	3	Start pumping 50 sk cement at 1080 ft. 13.3 bbls slurry.
7:25			70	11.9	3	Start displAcaement 11.9 bbls h20
8:00	200		80.6	10.6	3	Pump 40 sk at500 ft., 10.6 bbls slurry.
8:04			92.5	11.9	3	Displac ement 11.9 bbls h20
8:48	50			5.3	3	Pump 20 sk at 60 ft., 5.3 bbls slurry.
8:55	50			8	3	,Mix and pump 30 sk cement for ratholee., 8 bbls slurry.
9:00	50			5.3	3	Mix and pump 20 sk cement for mouse hole 5.3 bbls slurry.
9:05						Wash pumping lines
						Rig down
						Job finished
						Thankyou.

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