

## **CEMENTING LOG**

Date				- Control Control Control		Spacer Type H2O
Company		almer Oil okover		Duk	e #9 4-6	AmtSks Yieldft³/sk Density PPG
Lease County			Stat	l No e I	KS	
Location	F	шиеу			K3	LEAD: Time hrs. Type 65/35 6% gel 3% CC
Field						.5# flo seal Excess
Casing Data	Conductor	☐ PTA	☐ Sq	10070	Misc.	Amt. 700 Sks Yield 1.97 ft³/sk Density 12.4 PPG
Casing Data	✓ Surface	☐ Interme		ueeze oduction	Liner	
Size 8						
3126 8	1ур		Weight	Z4# Colla		Amt. 200 Sks Yield 1.18 ft³/sk Density 15.6 PPG
						WATER Lead 10.9 Gal/sk Tail 5.3 Gal/sk Total BBLS
						WATER Lead 10.9 Gal/sk Tall 5.3 Gal/sk Total BBLS
Casing Depth	r Ton	0	Rottom	16	90	Pump Trucks Used: 549-550
Casing Depth	s 10h	- 0	Bottom		69	Bulk Equipment 495-554
						705-642
						703-042
Drill Pipe:	RRI S /	LIN. FT	LIN	FT/BBL		
Open Hole:		LIN. FT	LIN.	FT/BBL		Float Equipment: Manufacturer Weather Ford
Capacity Fact			0.0637 LIN.			Shoe: Type Guide Shoe Depth 1742
Capacity Fact		LIN. FT C		FT/BBL		Float: Type AFU Insert Float Depth 1700
Open Holes			0.1458 LIN.	ET/DDL	6.85	
			LIN.	ET/DDL	0.03	
Drill Pipe			0.0735 LIN.	FT/BBL	13.6	Stage Collars Special Equipment Cement Basket
Annulus	1117.000	LIN. FTC LIN. FT				
D - f +:	0.000			FT/BBL		
Perforations	From	п	to	It An		Mud Type Weight
TIME		IRES PSI		D PUMPED	1	REMARKS
AM/PM	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	PUMPED PER TIME PERIOD	BBLS/MIN	REWIARRS
2:30pm						On location @ 2:30pm
5:30pm						Rigging up to well head
6.05					-	Coffee and the state of the sta
6:25pm	2000				+	Safety meeting with rigg crew Pressure testing pumping lines to 2000 psi
6:27pm	2000				-	Pressure testing pumping lines to 2000 psi
6:30pm	200		10		5	10 bbls of H2O head of cement
6:34pm	220		259		5	Mixing lead cement @ 12.4#
7:14pm	180		301		4	Mixing Tail cement @ 15.6#
7:28pm	0		0		0	End of cememt shutting down to release plug
7:30pm	120		301		5	Plug left the head and started displacement of 104 bbls
7:39pm	140		351		6	50 bbls gone
7:48pm	600		401		5	100 bbls gone 5bpm @ 600 psi
7:55pm	1100		405		3	102 bbls gone and landed the plug bumped to 1100 psi and holding
						released the psi and float holding .5 BBLS BACK TO TRUCK
						60bbls of cement to surface
						rigging down iron
						leaving location @ 8:30pm
						leaving location @ 8:30pm
						leaving location @ 8:30pm
						leaving location @ 8:30pm
						leaving location @ 8:30pm

	Ame	rican Warrior	r Rig	Duke	: #9	Amt. Sks Yield ft <sup>3</sup> /sk Density PPC
Lease				II No	4-6	The state of the s
	St			-	S	
Location		EVENS	Jia			LEAD: Time hrs. Type 60/40/4% gel
Field		-	_			Excess
- Committee of the comm	Conducto	r PTA	Пе	queeze	Misc.	Amt. 210 Sks Yield 1.5 ft²/sk Density 13.5 PPC
casing Data	Surface		diate Pr			TAIL: Time hrs. Type
Sizo 11/2		е	SECTION STREET			Excess
3126 41/20	impipe Typ		weight	24# Cond		Amt. Sks Yield ft³/sk Density PPG
						WATER Lead 7.5 Gal/sk Tail Gal/sk Total 28 BBL
						WATER LEGIC 713 Galy Sk. Tall Galy Sk. Total 25 GG
Casing Don	h Top		Botton	,		Pump Trucks Used: 530-484
casing bep	11 10p					Bulk Equipment 774-744
						bulk Equipment 177774
			1			
Drill Pipe	RRISA	LIN. FT	LIN	I. FT/BBL		
Open Hole:		LIN. FT		I. FT/BBL		Float Equipment: Manufacturei
	ctors: BBLS/			I. FT/BBL		Shoe: Type Depth
Capacity Fa Casing		LIN. FT		I. FT/BBL		Float: Type Depth
Open Holes		LIN. FT		I. FT/BBL		Centralizers: Quantity Plugs Top Bottom
		LIN. FT 0.0				Stage Collars
Drill Pipe Annulus		LIN. FT		I. FT/BBL		Special Equipmer
Armulus		LIN. FT		I. FT/BBL		Disp: Fluid Type H2O & Mud Amt bbls Weight PP
Danfanski sa		ft t			.4	Mud Type Weight 9.5
Perioration	s From		ic	IL AII		weight 3.5
	REPRESENTA			ID DUM IDED		CEMENTER Edgar A. Rodriguez
TIME		IRES PSI		ID PUMPED I	T	DESAADVC
***	DRILL PIPE	ANNULUS	TOTAL	PUMPED PER TIME PERIOD	RATE BBLS/MIN	REMARKS
AM/PM	CASING		FLUID	Timerenioo	BBF2\ IAIIA	
12:30 pm	CASING		FLUID	Time rendo	BBL5/IVIIN	Arrive on location
	CASING		FLOID	Innerence	BBES/IVIIN	Arrive on location Spot equipment and rig up
12:30 pm	CASING		FLOID	Time Pendo	BBL3/MIN	
12:30 pm 12:45	CASING		FLOID	Time routes	BBLS/IVIIN	Spot equipment and rig up
12:30 pm 12:45 1:30	CASING		FLOID	Imercaso	BBLS/MIN	Spot equipment and rig up Safety meeting
12:30 pm 12:45 1:30 1:43	CASING 70		13	Interessor	BBLS/MIN	Spot equipment and rig up Safety meeting Start job
12:30 pm 12:45 1:30 1:43 1:47				Time roads		Spot equipment and rig up Safety meeting Start job 1st plug @1730'
12:30 pm 12:45 1:30 1:43 1:47	70		13		4	Spot equipment and rig up Safety meeting Start job 1st plug @1730' Pump 50 sks of cmt (13 bbls @13.5)
12:30 pm 12:45 1:30 1:43 1:47 1:47	70		13		4	Spot equipment and rig up Safety meeting Start job 1st plug @1730' Pump 50 sks of cmt (13 bbls @13.5) Pump 21 bbls of mud displacement
12:30 pm 12:45 1:30 1:43 1:47 1:47 1:51	70		13		4	Spot equipment and rig up Safety meeting Start job 1st plug @1730' Pump 50 sks of cmt (13 bbls @13.5) Pump 21 bbls of mud displacement Come out of hole with drillpipe
12:30 pm 12:45 1:30 1:43 1:47 1:47 1:51 1:58 2:27	70		13 21		4 4	Spot equipment and rig up Safety meeting Start job 1st plug @1730' Pump 50 sks of cmt (13 bbls @13.5) Pump 21 bbls of mud displacement Come out of hole with drillpipe 2nd plug @930'
12:30 pm 12:45 1:30 1:43 1:47 1:47 1:51 1:58 2:27 2:27	70 30 60		13 21		4 4 3	Spot equipment and rig up Safety meeting Start job 1st plug @1730' Pump 50 sks of cmt (13 bbls @13.5) Pump 21 bbls of mud displacement Come out of hole with drillpipe 2nd plug @930' Pump 50 sks of cmt (13 bbls @13.5)
12:30 pm 12:45 1:30 1:43 1:47 1:47 1:51 1:58 2:27 2:27 2:36	70 30 60		13 21		4 4 3	Spot equipment and rig up Safety meeting Start job 1st plug @1730' Pump 50 sks of cmt (13 bbls @13.5) Pump 21 bbls of mud displacement Come out of hole with drillpipe 2nd plug @930' Pump 50 sks of cmt (13 bbls @13.5) Pump 10 bbls of displacement
12:30 pm 12:45 1:30 1:43 1:47 1:47 1:51 1:58 2:27 2:27 2:36 2:39	70 30 60		13 21		4 4 3	Spot equipment and rig up Safety meeting Start job 1st plug @1730' Pump 50 sks of cmt (13 bbls @13.5) Pump 21 bbls of mud displacement Come out of hole with drillpipe 2nd plug @930' Pump 50 sks of cmt (13 bbls @13.5) Pump 10 bbls of displacement Come out of hole with drillpipe
12:30 pm 12:45 1:30 1:43 1:47 1:47 1:51 1:58 2:27 2:27 2:36 2:39 2:54	70 30 60 30		13 21 13 10		3 3	Spot equipment and rig up Safety meeting Start job 1st plug @1730' Pump 50 sks of cmt (13 bbls @13.5) Pump 21 bbls of mud displacement Come out of hole with drillpipe 2nd plug @930' Pump 50 sks of cmt (13 bbls @13.5) Pump 10 bbls of displacement Come out of hole with drillpipe 3rd plug @450'
12:30 pm 12:45 1:30 1:43 1:47 1:47 1:51 1:58 2:27 2:27 2:36 2:39 2:54	70 30 60 30		13 21 13 10		3 3 3	Spot equipment and rig up Safety meeting Start job 1st plug @1730' Pump 50 sks of cmt (13 bbls @13.5) Pump 21 bbls of mud displacement Come out of hole with drillpipe 2nd plug @930' Pump 50 sks of cmt (13 bbls @13.5) Pump 10 bbls of displacement Come out of hole with drillpipe 3rd plug @450' Pump 40 sks of cmt (11 bbls @13.5)
12:30 pm 12:45 1:30 1:43 1:47 1:47 1:51 1:58 2:27 2:36 2:39 2:54 2:54	70 30 60 30		13 21 13 10		3 3 3	Spot equipment and rig up Safety meeting Start job 1st plug @1730' Pump 50 sks of cmt (13 bbls @13.5) Pump 21 bbls of mud displacement Come out of hole with drillpipe 2nd plug @930' Pump 50 sks of cmt (13 bbls @13.5) Pump 10 bbls of displacement Come out of hole with drillpipe 3rd plug @450' Pump 40 sks of cmt (11 bbls @13.5) Pump 4 bbls of displacement Come out of hole with drillpipe
12:30 pm 12:45 1:30 1:43 1:47 1:47 1:51 1:58 2:27 2:36 2:39 2:54 2:54 2:58 3:00	70 30 60 30		13 21 13 10		3 3 3	Spot equipment and rig up Safety meeting Start job 1st plug @1730' Pump 50 sks of cmt (13 bbls @13.5) Pump 21 bbls of mud displacement Come out of hole with drillpipe 2nd plug @930' Pump 50 sks of cmt (13 bbls @13.5) Pump 10 bbls of displacement Come out of hole with drillpipe 3rd plug @450' Pump 40 sks of cmt (11 bbls @13.5) Pump 4 bbls of displacement Come out of hole with drillpipe 4th plug @60'
12:30 pm 12:45 1:30 1:43 1:47 1:47 1:51 1:58 2:27 2:36 2:39 2:54 2:54 2:58 3:00 3:33	70 30 60 30 70 30		13 21 13 10		3 3 3 3	Spot equipment and rig up Safety meeting Start job 1st plug @1730' Pump 50 sks of cmt (13 bbls @13.5) Pump 21 bbls of mud displacement Come out of hole with drillpipe 2nd plug @930' Pump 50 sks of cmt (13 bbls @13.5) Pump 10 bbls of displacement Come out of hole with drillpipe 3rd plug @450' Pump 40 sks of cmt (11 bbls @13.5) Pump 4 bbls of displacement Come out of hole with drillpipe 4th plug @60' Pump 20 sks of cmt (5 bbls @13.5)
12:30 pm 12:45 1:30 1:43 1:47 1:47 1:51 1:58 2:27 2:36 2:39 2:54 2:54 2:58 3:00 3:33 3:33	70 30 60 30 70 30		13 21 13 10		3 3 3 3	Spot equipment and rig up Safety meeting Start job 1st plug @1730' Pump 50 sks of cmt (13 bbls @13.5) Pump 21 bbls of mud displacement Come out of hole with drillpipe 2nd plug @930' Pump 50 sks of cmt (13 bbls @13.5) Pump 10 bbls of displacement Come out of hole with drillpipe 3rd plug @450' Pump 40 sks of cmt (11 bbls @13.5) Pump 4 bbls of displacement Come out of hole with drillpipe 4th plug @60' Pump 20 sks of cmt (5 bbls @13.5) Come of hole with joint
12:30 pm 12:45 1:30 1:43 1:47 1:47 1:51 1:58 2:27 2:36 2:39 2:54 2:54 2:58 3:00 3:33 3:33 3:36	70 30 60 30 70 30		13 21 13 10 11 4		4 4 3 3 3 3	Spot equipment and rig up Safety meeting Start job 1st plug @1730' Pump 50 sks of cmt (13 bbls @13.5) Pump 21 bbls of mud displacement Come out of hole with drillpipe 2nd plug @930' Pump 50 sks of cmt (13 bbls @13.5) Pump 10 bbls of displacement Come out of hole with drillpipe 3rd plug @450' Pump 40 sks of cmt (11 bbls @13.5) Pump 4 bbls of displacement Come out of hole with drillpipe 4th plug @60' Pump 20 sks of cmt (5 bbls @13.5)
12:30 pm 12:45 1:30 1:43 1:47 1:47 1:51 1:58 2:27 2:36 2:39 2:54 2:54 2:58 3:00 3:33 3:33 3:36 3:46	70 30 60 30 70 30		13 21 13 10 11 4		4 4 3 3 3 3	Spot equipment and rig up Safety meeting Start job  1st plug @1730' Pump 50 sks of cmt (13 bbls @13.5) Pump 21 bbls of mud displacement Come out of hole with drillpipe 2nd plug @930' Pump 50 sks of cmt (13 bbls @13.5) Pump 10 bbls of displacement Come out of hole with drillpipe 3rd plug @450' Pump 40 sks of cmt (11 bbls @13.5) Pump 4 bbls of displacement Come out of hole with drillpipe 4th plug @60' Pump 20 sks of cmt (5 bbls @13.5) Come of hole with joint Pump 30 sks of cmt in rat hole Come of hole with joint
12:30 pm 12:45 1:30 1:43 1:47 1:47 1:51 1:58 2:27 2:36 2:39 2:54 2:54 2:58 3:00 3:33 3:33 3:36 3:46 3:48	70 30 60 30 70 30 40		13 21 13 10 11 4		3 3 3 3	Spot equipment and rig up Safety meeting Start job 1st plug @1730' Pump 50 sks of cmt (13 bbls @13.5) Pump 21 bbls of mud displacement Come out of hole with drillpipe 2nd plug @930' Pump 50 sks of cmt (13 bbls @13.5) Pump 10 bbls of displacement Come out of hole with drillpipe 3rd plug @450' Pump 40 sks of cmt (11 bbls @13.5) Pump 4 bbls of displacement Come out of hole with drillpipe 4th plug @60' Pump 20 sks of cmt (5 bbls @13.5) Come of hole with joint Pump 30 sks of cmt in rat hole Come of hole with joint Pump 20 sks of cmt in mouse hole
12:30 pm 12:45 1:30 1:43 1:47 1:47 1:51 1:58 2:27 2:36 2:39 2:54 2:54 2:58 3:00 3:33 3:33 3:36 3:46 3:48 3:50	70 30 60 30 70 30 40		13 21 13 10 11 4		3 3 3 3	Spot equipment and rig up Safety meeting Start job  1st plug @1730' Pump 50 sks of cmt (13 bbls @13.5) Pump 21 bbls of mud displacement Come out of hole with drillpipe 2nd plug @930' Pump 50 sks of cmt (13 bbls @13.5) Pump 10 bbls of displacement Come out of hole with drillpipe 3rd plug @450' Pump 40 sks of cmt (11 bbls @13.5) Pump 4 bbls of displacement Come out of hole with drillpipe 4th plug @60' Pump 20 sks of cmt (5 bbls @13.5) Come of hole with joint Pump 30 sks of cmt in rat hole Come of hole with joint Pump 20 sks of cmt in mouse hole End job
12:30 pm 12:45 1:30 1:43 1:47 1:47 1:51 1:58 2:27 2:36 2:39 2:54 2:54 2:58 3:00 3:33 3:36 3:46 3:48 3:50 4:00	70 30 60 30 70 30 40		13 21 13 10 11 4		3 3 3 3	Spot equipment and rig up Safety meeting Start job 1st plug @1730' Pump 50 sks of cmt (13 bbls @13.5) Pump 21 bbls of mud displacement Come out of hole with drillpipe 2nd plug @930' Pump 50 sks of cmt (13 bbls @13.5) Pump 10 bbls of displacement Come out of hole with drillpipe 3rd plug @450' Pump 40 sks of cmt (11 bbls @13.5) Pump 4 bbls of displacement Come out of hole with drillpipe 4th plug @60' Pump 20 sks of cmt (5 bbls @13.5) Come of hole with joint Pump 30 sks of cmt in rat hole Come of hole with joint Pump 20 sks of cmt in mouse hole End job Rig down
12:30 pm 12:45 1:30 1:43 1:47 1:47 1:51 1:58 2:27 2:36 2:39 2:54 2:54 2:58 3:00 3:33 3:33 3:36 3:46 3:48 3:50 4:00 4:20	70 30 60 30 70 30 40		13 21 13 10 11 4		3 3 3 3	Spot equipment and rig up Safety meeting Start job  1st plug @1730' Pump 50 sks of cmt (13 bbls @13.5) Pump 21 bbls of mud displacement Come out of hole with drillpipe 2nd plug @930' Pump 50 sks of cmt (13 bbls @13.5) Pump 10 bbls of displacement Come out of hole with drillpipe 3rd plug @450' Pump 40 sks of cmt (11 bbls @13.5) Pump 4 bbls of displacement Come out of hole with drillpipe 4th plug @60' Pump 20 sks of cmt (5 bbls @13.5) Come of hole with joint Pump 30 sks of cmt in rat hole Come of hole with joint Pump 20 sks of cmt in mouse hole End job
12:30 pm 12:45 1:30 1:43 1:47 1:47 1:51 1:58 2:27 2:36 2:39 2:54 2:54 2:58 3:00 3:33 3:33 3:36 3:46 3:48 3:50 4:00 4:20	70 30 60 30 70 30 40		13 21 13 10 11 4		3 3 3 3	Spot equipment and rig up Safety meeting Start job 1st plug @1730' Pump 50 sks of cmt (13 bbls @13.5) Pump 21 bbls of mud displacement Come out of hole with drillpipe 2nd plug @930' Pump 50 sks of cmt (13 bbls @13.5) Pump 10 bbls of displacement Come out of hole with drillpipe 3rd plug @450' Pump 40 sks of cmt (11 bbls @13.5) Pump 4 bbls of displacement Come out of hole with drillpipe 4th plug @60' Pump 20 sks of cmt (5 bbls @13.5) Come of hole with joint Pump 30 sks of cmt in rat hole Come of hole with joint Pump 20 sks of cmt in mouse hole End job Rig down