

# HALLIBURTON

iCem<sup>®</sup> Service

## **GREAT WESTERN OIL & GAS LLC**

Date: Tuesday, September 16, 2014

### **POSTLE-IC- WELL #11-382 HN**

WATTENBURG

GREAT WESTERN OIL XTM 17 POSTLE-IC-11-382 HN PR PROD.LINER

Sincerely,

**JAMES SHERRATT**

## 1.2 Cementing Job Summary

<b>Sold To #:</b> 346459		<b>Ship To #:</b> 3358448		<b>Quote #:</b>		<b>Sales Order #:</b> 0901582181				
<b>Customer:</b> GREAT WESTERN OIL & GAS LLC - eBUS					<b>Customer Rep:</b> DUSTY WEATHERFORD					
<b>Well Name:</b> POSTLE -IC-			<b>Well #:</b> 11-382 HN			<b>API/UWI #:</b> 05-123-38970-00				
<b>Field:</b> WATTENBERG		<b>City (SAP):</b> PLATTEVILLE		<b>County/Parish:</b> WELD			<b>State:</b> COLORADO			
<b>Legal Description:</b> SW SW-12-3N-68W-438FSL-250FWL										
<b>Contractor:</b>				<b>Rig/Platform Name/Num:</b> Xtreme 17						
<b>Job BOM:</b> 7525										
<b>Well Type:</b> HORIZONTAL OIL										
<b>Sales Person:</b> HALAMERICA\HX38199					<b>Srv Supervisor:</b> James Sherratt					
<b>Job</b>										
<b>Formation Name</b>										
<b>Formation Depth (MD)</b>		<b>Top</b>		<b>Bottom</b>						
<b>Form Type</b>					<b>BHST</b>					
<b>Job depth MD</b>		11873ft			<b>Job Depth TVD</b>					
<b>Water Depth</b>					<b>Wk Ht Above Floor</b>					
<b>Perforation Depth (MD)</b>				<b>To</b>						
<b>Well Data</b>										
	<b>New / Used</b>	<b>Size</b> in	<b>ID</b> in	<b>Weight</b> lbm/ft	<b>Thread</b>	<b>Grade</b>	<b>Top MD</b> ft	<b>Bottom MD</b> ft	<b>Top TVD</b> ft	<b>Bottom TVD</b> ft
Drill Pipe		4	3.34	14			0	6792		0
Casing		7	6.366	26	LTC	L-80	0	7584		0
Casing		4.5	4	11.6	BTC	L-80	6792	11873	0	0
Open Hole Section			6.125				7584	11873	0	0
<b>Tools and Accessories</b>										
<b>Type</b>	<b>Size</b> in	<b>Qty</b>	<b>Make</b>	<b>Depth</b> ft		<b>Type</b>	<b>Size</b> in	<b>Qty</b>	<b>Make</b>	
Guide Shoe	4.5			11873		Top Plug	4.5		HES	
Float Shoe	4.5					Bottom Plug	4.5		HES	
Float Collar	4.5					SSR plug set	4.5		HES	
Insert Float	4.5					Plug Container	4.5		HES	
	4.5					Centralizers	4.5		HES	
<b>Miscellaneous Materials</b>										
<b>Gelling Agt</b>		<b>Conc</b>		<b>Surfactant</b>		<b>Conc</b>		<b>Acid Type</b>	<b>Qty</b>	
<b>Treatment Fld</b>		<b>Conc</b>				<b>Conc</b>		<b>Sand Type</b>		
<b>Fluid Data</b>										

## Stage/Plug #: 1

Fluid #	Stage Type	Fluid Name		Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
1	11.5 lb/gal Tuned Spacer III	Tuned Spacer III		40	bbl	11.5	3.75	24.2	4	
Fluid #	Stage Type	Fluid Name		Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
2	Tail Cement	EXPANDACEM (TM) SYSTEM		325	sack	13.8	1.67		6	7.69
Fluid #	Stage Type	Fluid Name		Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
3	Displacement	Displacement		138	bbl	8.33				
		Amount	45 ft							
Comment										

**1.7 Job Event Log**

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	PS Pump Press (psi)	Comb Pump Rate (bbl/min)	DH Density (ppg)	Comment
Event	1	Call Out	Call Out	8/13/2014	06:30:00	USER				HES CREW CALLED OUT AT ON REQUESTED ON LOCATION AT
Event	2	Depart Yard Safety Meeting	Depart Yard Safety Meeting	8/13/2014	12:00:00	USER				HES CREW DISCUSSED THE HAZARDS OF DRIVING TO LOCATION
Event	3	Depart from Service Center or Other Site	Depart from Service Center or Other Site	8/13/2014	12:30:00	USER				DEPART FROM YARD TO LOCATION
Event	4	Arrive At Loc	Arrive At Loc	8/13/2014	13:00:00	USER				ARRIVE AT LOCATION
Event	5	Assessment Of Location Safety Meeting	Assessment Of Location Safety Meeting	8/13/2014	13:30:00	USER				HES CREW DISCUSSED HOW TO SAFELY SPOT EQUIPMENT
Event	6	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	8/13/2014	13:35:00	USER				HES CREW DISCUSSED THE HAZARDS OF RIGGING UP EQUIPMENT
Event	7	Rig-Up Equipment	Rig-Up Equipment	8/13/2014	14:00:00	USER				RIG-UP ALL IRON AND WATER LINES
Event	8	Pre-Job Safety Meeting	Pre-Job Safety Meeting	8/13/2014	17:00:00	USER	8.00	0.00	-0.01	HES AND RIG CREW DISCUSSED THE HAZARDS OF RIGGING UP THE RIG FLOOR AND PUMPING THE JOB
Event	9	Rig-Up Completed	Rig-Up Complete	8/13/2014	17:30:00	USER	15.00	0.00	8.36	RIG-UP OF LINES ON GROUND AND FLOOR COMPLETE
Event	10	Start Job	Start Job	8/13/2014	17:38:43	COM10	1.00	0.00	8.38	
Event	11	Test Lines	Test Lines	8/13/2014	17:53:52	COM10	32.00	0.00	9.12	TEST LINES TO 4000 PSI
Event	12	Pump Spacer 1	Pump Spacer 1	8/13/2014	17:58:42	COM10	27.00	0.00	9.05	PUMPED 35 BBLS SPACER @ 11.5#
Event	13	Pump Tail Cement	Pump Tail Cement	8/13/2014	18:16:00	USER	526.00	4.30	14.00	PUMP 325 SKS 13.8 PPG., YLD 1.67 FT/SK., WR 7.69 GAL/SK
Event	14	Shutdown	Shutdown	8/13/2014	18:34:00	USER	18.00	0.00	12.85	SHUTDOWN

Event	15	Other	Wash Pumps and Lines	8/13/2014	18:35:00	USER	9.00	0.00	13.40	WASH PUMPS AND LINES TO THE PIT
Event	16	Drop Plug	Drop Plug	8/13/2014	19:00:00	USER	3.00	0.00	8.36	COMPANY MAN WITNESSED HES PLUG DROP
Event	17	Pump Displacement	Pump Displacement Liner	8/13/2014	19:02:00	USER	25.00	2.00	9.66	PUMP 78 BBLS OF H2O DISPLACEMENT DUE TO RIG PROBLEMS COULD NOT PUMP BIOCIDES.
Event	18	Slow Rate	Slow Rate	8/13/2014	19:30:00	USER	1278.00	2.00	8.50	SLOW RATE AT 48BBLS
Event	19	Pump Spacer 2	Pump Spacer Displacement	8/13/2014	19:33:37	COM10	1233.00	2.00	11.53	5 BBLS SPACER IN DRILL PIPE @ 11.5 #
Event	20	Pump Displacement	Pump WBM in the Drill Pipe Displacement	8/13/2014	19:34:19	COM10	1232.00	2.00	11.43	55BBLS WBM IN THE DRILL PIPE @ 10.3#
Event	21	Slow Rate	Slow Rate	8/13/2014	19:40:00	USER	1538.00	4.00	10.52	SLOW RATE LAST 10 BBLS TO 2 BPM
Event	22	Check Floats	Check Floats	8/13/2014	19:52:00	USER	1945.00	0.00	10.49	FLOATS HELD WITH BBLS BACK TO HES CEMENT PUMP
Event	23	Bump Plug	Bump Plug	8/13/2014	19:55:00	USER	21.00	0.00	10.49	BUMP PLUG TAKE 500 PSI OVER FINAL CIRCULATING PRESSURE
Event	24	Test Lines	Test Lines	8/13/2014	20:31:28	COM10				TEST BACK SIDE LINES TO 3000 PSI TEST FAILED DUE TO RIG COMPLICATIONS
Event	25	Pump Displacement	Roll the Hole Displacement	8/13/2014	20:56:10	COM10				CIRCULATE THE WELL WITH BIOCIDES H2O HAD TROUBLE GETTING BIOCIDES FROM THE RIG @ 120 BBLS AWAY SPACER BACK TO SURFACE. DISPLACED 225BBLS AND SHUT DOWN
Event	26	End Job	End Job	8/13/2014	22:18:49	COM10	4.00	0.00	0.17	
Event	27	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	8/13/2014	22:20:00	USER				HES CREW DISCUSSED THE HAZARDS OF RIGGING DOWN EQUIPMENT
Event	28	Rig-Down Equipment	Rig-Down Equipment	8/13/2014	22:25:00	USER				RIG-DOWN EQUIPMENT

Event	29	Rig-Down Completed	Rig-Down Completed	8/13/2014	22:45:00	USER	RIG-DOWN COMPLETE
Event	30	Depart Location Safety Meeting	Depart Location Safety Meeting	8/13/2014	22:50:00	USER	HES CREW DISCUSSED THE HAZARDS OF DRIVING
Event	31	Depart Location for Service Center or Other Site	Depart Location for Service Center or Other Site	8/13/2014	22:55:00	USER	DEPART FROM LOCATION
Event	32	Job Complete	Job Complete	8/13/2014	23:00:00	USER	JOB COMPLETE, TOP OF TAIL AT , TOP OF LEAD AT , TOP OF SCAVENGER AT