HALLIBURTON

iCem® Service

EXTRACTION OIL & GAS

Date: Thursday, October 06, 2016

Winder South #8

Surface

Job Date: Thursday, August 18, 2016

Sincerely,

Lauren Roberts

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1.0 Cementing Job Summary

1.1 Executive Summary

Halliburton appreciates the opportunity to perform the cementing services on the **Winder South #8** cement **Surface** casing job. A pre-job safety meeting was held before the job where details of the job were discussed, potential safety hazards were reviewed, and environmental compliance procedures were outlined.

32 bbl. of cement returned to surface.

Halliburton maintains a continuous quality improvement process and appreciates any comments or suggestions that you may have. Halliburton again thanks you for the opportunity to perform service work on this well. We hope to be your solutions provider for future projects.

Respectfully,

Halliburton [Ft. Lupton]

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Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 369404	**Ship To #:** 3749911	**Quote #:**	**Sales Order #:** 0903477006
Customer: EXTRACTION OIL & GAS -		**Customer Rep:** JOSE	
Well Name: WINDER SOUTH	**Well #:** 8		**API/UWI #:** 05-123-43405-00
Field: WATTENBERG	**City (SAP):** WINDSOR	**County/Parish:** WELD	**State:** COLORADO
Legal Description: SE NE-9-6N-67W-2306FNL-388FEL			
Contractor: White Mountain Drilling		**Rig/Platform Name/Num:** White Mountain 272	
Job BOM: 7521			
Well Type: HORIZONTAL OIL			
Sales Person: HALAMERICA\HB61755		**Srvc Supervisor:** Joseph Scileppi	

Job

Formation Name				
Formation Depth (MD)	**Top**	0	**Bottom**	1564
Form Type			**BHST**	
Job depth MD	1564ft		**Job Depth TVD**	1564
Water Depth			**Wk Ht Above Floor**	
Perforation Depth (MD)	**From**		**To**	

Well Data

Description	New / Used	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
Casing		9.625	8.921	36			0	1564	0	1564
Open Hole Section			13.5				0	1564	0	1564

Tools and Accessories

Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make
Guide Shoe	9.625			1564	Top Plug	9.625		
Float Shoe	9.625				Bottom Plug	9.625		
Float Collar	9.625				SSR plug set	9.625		
Insert Float	9.625				Plug Container	9.625	1	HES
Stage Tool	9.625				Centralizers	9.625		

Fluid Data

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	Fresh Water	Fresh Water	10	bbl	8.33				

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	SwiftCem	SWIFTCEM (TM) SYSTEM	565	sack	13.5	1.74		6	9.19
9.19 Gal		FRESH WATER							

last updated on 8/18/2016 5:24:17 PM

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Cementing Job Summary

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	117	bbl	8.33				

Cement Left In Pipe	**Amount**	42 ft	**Reason**		Shoe Joint
Mix Water:	pH ##	**Mix Water Chloride:**	## ppm	**Mix Water Temperature:**	## °F °C
Cement Temperature:	## °F °C	**Plug Displaced by:**	## lb/gal kg/m3 XXXX	**Disp. Temperature:**	## °F °C
Plug Bumped?	Yes/No	**Bump Pressure:**	#### psi MPa	**Floats Held?**	Yes/No
Cement Returns:	## bbl m3	**Returns Density:**	## lb/gal kg/m3	**Returns Temperature:**	## °F °C
Comment 32 bbls of cmt back to surface					

2.0 Real-Time Job Summary

2.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	Comb Pump Rate (bbl/min)	DH Density (ppg)	PS Pump Press (psi)	Pump Stage Total (bbl)	Comments
Event	1	Call Out	Call Out	8/18/2016	07:00:00	USER					CALLOUT FOR ON LOCATION AT 1230
Event	2	Crew Leave Yard	Crew Leave Yard	8/18/2016	11:00:00	USER					PRE JOURNEY JSA W/ CREW
Event	3	Arrive At Loc	Arrive At Loc	8/18/2016	12:15:00	USER					UPON ARRIVAL RIG STARTED RUNNING CASING, MET W/ COMPANY REP TO DISCUSS JOB PROCEDURE
Event	4	Rig-Up Equipment	Rig-Up Equipment	8/18/2016	14:45:00	USER					PRE RIG UP HAZARD HUNT JSA W/ CREW
Event	5	Other	Other	8/18/2016	14:50:00	USER					FIELD MIX WATER ANALYSIS: TEMP-63, PH-7, CHLORIDES-0
Event	6	Pre-Job Safety Meeting	Pre-Job Safety Meeting	8/18/2016	15:35:00	USER	0.00	8.44	7.00	5.5	JSA W/ ALL INVOLVED PERSONNEL
Event	7	Start Job	Start Job	8/18/2016	15:43:41	COM5	0.00	8.53	4.00	5.5	
Event	8	Test Lines	Test Lines	8/18/2016	15:52:27	COM5	0.00	8.34	3.00	7.0	TESTED LINES TO 2500 PSI FOR 5 MIN, NO VISIBLE LEAKS
Event	9	Pump Spacer 1	Pump Spacer 1	8/18/2016	15:52:32	COM5	0.00	8.34	3.00	0.0	PUMPED 10 BBLS OF DYE WATER AT 3 BPM AND 60 PSI
Event	10	Pump Cement	Pump Cement	8/18/2016	15:55:46	COM5	0.00	8.31	62.00	0.0	PUMPED 565 SKS OR 175 BBLS OF 13.5 CMT AT 7 BPM AND 160 PSI
Event	11	Check Weight	Check weight	8/18/2016	15:56:38	COM5	5.00	13.27	112.00	3.3	WEIGHT VERIFIED BY MUD SCALES

Event	12	Check Weight	Check weight	8/18/2016	16:07:41	COM5	6.00	13.55	117.00	62.5	WEIGHT VERIFIED BY MUD SCALES
Event	13	Shutdown	Shutdown	8/18/2016	16:28:05	COM5	0.00	-1.83	-28.00	190.2	
Event	14	Drop Top Plug	Drop Top Plug	8/18/2016	16:29:53	COM5	0.00	-1.83	-26.00	190.2	PLUG PRE LOADED AND WITNESSED BY COMPANY REP
Event	15	Pump Displacement	Pump Displacement	8/18/2016	16:29:55	COM5	0.00	-1.83	-26.00	0.0	PUMPED 117.6 BBLS OF 8.6 MUD AT 8 BPM AND 250 PSI, GOT 32 BBLS OF CMT BACK TO SURFACE
Event	16	Bump Plug	Bump Plug	8/18/2016	16:53:46	COM5	0.00	8.24	1024.00	123.4	FINAL CIRCULATING PRESSURE WAS 450 PSI AND PLUG BUMPED AT 1000 PSI
Event	17	Other	Other	8/18/2016	16:54:00	COM5	0.00	8.24	1035.00	123.4	CHECKED FLOATS, THEY HELD AND GOT .5 BBL BACK TO TRUCK
Event	18	End Job	End Job	8/18/2016	16:54:58	COM5	0.00	8.24	-17.00	123.4	

3.0 Attachments