

HALLIBURTON

iCem[®] Service

BISON OIL & GAS II LLC

Ross 8-60 18-7-6 Surface

Job Date: Monday, May 16, 2022

Sincerely,

Meghan Van Zyl

Legal Notice

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1.0 Cementing Job Summary

1.1 Executive Summary

Halliburton appreciates the opportunity to perform the cementing services on the **Ross 8-60 18-7-6** 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.

Approximately 30 bbls of cement were 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 Fort Lupton

Sold To #: 324725		Ship To #: 324725		Quote #:		Sales Order #: 0907866043	
Customer: BISON OIL & GAS II LLC				Customer Rep: Jose Torres			
Well Name: Ross 8-60			Well #: 18-7-6		API/UWI #:		
Field:		City (SAP): keota		County/Parish: Weld		State: COLORADO	
Legal Description:							
Contractor: ENSIGN DRLG				Rig/Platform Name/Num: ENSIGN 140			
Job BOM: 7521 7521							
Well Type: OIL & GAS WELL							
Sales Person: HALAMERICA\HX41066				Srvc Supervisor: Nicholas Roles			

Job

Formation Name							
Formation Depth (MD)	Top				Bottom		
Form Type				BHST			
Job depth MD	1975ft			Job Depth TVD			
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
Open Hole Section			13.5				0	1970		1970
Casing		9.625	8.921	36			0	1970		1970

Tools and Accessories

Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make
Guide Shoe	9.625				Top Plug	9.625	1	
Float Shoe	9.625			1970	Bottom Plug	9.625	1	
Float Collar	9.625			1931	SSR plug set	9.625		HES
Insert Float	9.625				Plug Container	9.625	1	HES
Stage Tool	9.625				Centralizers	9.625		HES

Fluid Data

Stage/Plug #: 1									
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft ³ /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
1	Water with dye	Water with dye	10	bbl	8.34		420	6	

Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft ³ /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
2	SwiftCem	SBM SWIFTCEM CEMENT SYSTEM CEM	600	sack	13.5	1.75	5538	8	9.23

Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft ³ /sack	Mix Fluid Gal	Rate bbl/mi n	Total Mix Fluid Gal	
3	Displacement	Displacement	148	bbl	8.34		6258	8		
Cement Left In Pipe		Amount	44ft		Reason			Shoe Joint		
Mix Water:		pH 7	Mix Water Chloride: >3000 ppm			Mix Water Temperature:			65 °F °C	
Cement Temperature:		## °F °C	Plug Displaced by: 8.33 lb/gal			Disp. Temperature:			65 °F °C	
Plug Bumped?		Yes	Bump Pressure: 1150 psi MPa			Floats Held?			Yes	
Cement Returns:		30 bbl m3	Returns Density: ## lb/gal kg/m3			Returns Temperature:			## °F °C	
Comment Est. 30bbls cement to surface. 290bbls mix water total used.										

2.0 Real-Time Job Summary

2.1 Job Event Log

Seq No.	Activity	Graph Label	Date	Time	DH Density (ppg)	Comb Pump Rate (bbl/min)	DS Pump Press (psi)	Pump Stg Tot (bbl)	Comments
1	Call Out	Call Out	5/16/2022	04:00:00					Called out by service coordinator for OL time of 0900.
2	Arrive at Location from Service Center	Arrive at Location from Service Center	5/16/2022	04:00:00					Upon arrival to location, signed in with onsite safety personnel. Met with company man and discussed job specific requirements and specifications.
3	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	5/16/2022	08:30:00					Held pre rig up JSA for hazards, hazard hunt with crew, and discussed plan for spotting equipment and rigging up lines for job. Discussed muster points and closest emergency location as well as coordinates.
4	Rig-Up Equipment	Rig-Up Equipment	5/16/2022	08:45:00					Begin rig up with crew.
5	Other	Other	5/16/2022	09:00:00					Mix water test results- PH-7, Chlo-0, Temp-65F.
6	Rig-Up Completed	Rig-Up Completed	5/16/2022	09:15:00	7.97	0.00	15.00	0.00	Complete rig up for job to nearest point before red zone.
7	Safety Meeting - Pre Job	Safety Meeting - Pre Job	5/16/2022	09:15:00	7.97	0.00	15.00	0.00	Held job specific hazards as well as confirming job procedure with co man and rest of crew associated with job.
8	Start Job	Start Job	5/16/2022	09:36:30	7.92	0.00	4.00	0.00	TD-1970' 13.5", TP-1975' 9.625" 36#, FC-1931', OH-13.5", Mud-8.8#
9	Test Lines	Test Lines	5/16/2022	09:40:33	8.33	0.00	199.00	15.10	Pumped 3bbls to fill lines, established circulation, shutdown and closed manifold, performed 500psi k/o function test, continued with 5th gear stall at 1850psi

proceeded to bring pressure to 3500psi. Pressure stabilized and held with no leaks.

10	Drop Bottom Plug	Drop Bottom Plug	5/16/2022	09:43:41	8.36	0.00	81.00	15.10	Dropped by HES supervisor, witnessed by company man.
11	Pump Spacer 1	Pump Spacer 1	5/16/2022	09:43:43	8.36	0.00	81.00	15.10	Pumped 10bbbls fresh water with 1/3btl green Dye at 4.5bpm 120psi.
12	Pump Cement	Pump Cement	5/16/2022	09:50:34	8.36	0.00	149.00	0.00	Pumped 600sks or 187bbbls 13.5# 1.75y 9.23g/s Swiftcem at 8bpm 310psi. Mix Water=5737gal.
13	Check Weight	Check Weight	5/16/2022	09:50:36	8.36	0.00	149.00	0.00	Weight verified with pressurized mud scales.
14	Check Weight	Check Weight	5/16/2022	09:53:34	13.43	2.60	292.00	5.90	Weight verified with pressurized mud scales.
15	Check Weight	Check Weight	5/16/2022	10:06:46	13.38	9.00	662.00	102.70	Weight verified with pressurized mud scales.
16	Check Weight	Check Weight	5/16/2022	10:08:44	13.44	9.00	691.00	120.30	Weight verified with pressurized mud scales.
17	Shutdown	Shutdown	5/16/2022	10:20:38	14.03	0.00	98.00	215.10	
18	Drop Top Plug	Drop Top Plug	5/16/2022	10:21:20	26.37	0.00	-12.00	215.10	Dropped by HES supervisor, witnessed by company man.
19	Pump Displacement	Pump Displacement	5/16/2022	10:21:22	26.30	0.00	-12.00	215.10	Pumped 148bbbls of fresh water at 9bpm 550si.
20	Bump Plug	Bump Plug	5/16/2022	10:42:52	8.35	0.00	1252.00	153.10	Slowed down to 4bpm at 130bbbls away, final circulating pressure - 650psi, Bumped at 1150psi.
21	Other	Other	5/16/2022	10:43:53	8.36	0.00	1315.00	153.10	Released pressure to check floats, got 1bbbls back. Floats held.
22	End Job	End Job	5/16/2022	10:44:58	8.38	0.00	1.00	153.10	Est. 30bbbls cement to surface.
23	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	5/16/2022	10:50:00	8.40	1.70	27.00	0.00	Held safety meeting with crew prior to rig down, discussed possibility of trapped pressure, swing radius,

slips trips and falls, pinch points and risks associated with rig down.

24	Rig Down Lines	Rig Down Lines	5/16/2022	11:00:00	8.41	0.00	4.00	22.50	Begin rig down
25	Rig-Down Completed	Rig-Down Completed	5/16/2022	11:30:00					Rig down complete with no injuries, spills or damage to equipment.

3.0 Attachments

3.1 Real Time iCem Job Chart

