

HALLIBURTON

iCem[®] Service

CRESTONE PEAK RESOURCES-EBUS

State Pikes 4-65 36-31-32 1AH Surface

Job Date: Saturday, January 15, 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 **State Pikes 4-65 36-31-32 1AH** 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 57 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 #: 377645		Ship To #: 9100499		Quote #:		Sales Order #: 0907619515					
Customer: CRESTONE PEAK RESOURCES-EBUS				Customer Rep: Manny Perras							
Well Name: STATE PIKES 4-65 36-31-32			Well #: 1AH			API/UWI #: 05-005-07494					
Field: WATTENBERG		City (SAP): FOXFIELD		County/Parish: ARAPAHOE			State: COLORADO				
Legal Description:											
Contractor: ENSIGN DRLG					Rig/Platform Name/Num: ENSIGN 122						
Job BOM: 7521 7521											
Well Type: OIL											
Sales Person: HALAMERICA\HX41066					Srvc Supervisor: Brandon Parker						
Job											
Formation Name											
Formation Depth (MD)		Top			Bottom						
Form Type											
Job depth MD											
Water Depth											
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	3352			
Casing		9.625	8.835	40			0	3352			
Tools and Accessories											
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make		
Guide Shoe	9.625			3352		Top Plug	9.625		HES		
Float Shoe	9.625					Bottom Plug	9.625		HES		
Float Collar	9.625					SSR plug set	9.625		HES		
Insert Float	9.625					Plug Container	9.625		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 ft³/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
1	Water with dye	Water with dye			20	bbl	8.34				

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	
2	SwiftCem	SBM SWIFTCEM CEMENT SYSTEM CEM	1130	sack	13.5	1.76		8	9.37	
9.37 Gal		FRESH WATER								
0.1250 lbm		POLY-E-FLAKE (101216940)								
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	256	bbl	8.34					
Cement Left In Pipe		Amount	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										

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	1/15/2022	09:00:00					crew called out to 9.625 surface for Crestone on location time 1500hrs
2	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	1/15/2022	13:15:00					meeting with crew to discuss safety/hazards associated with traveling
3	Depart from Service Center or Other Site	Depart from Service Center or Other Site	1/15/2022	13:25:00					
4	Arrive at Location from Service Center	Arrive at Location from Service Center	1/15/2022	14:30:00					met with Mr. Manny and went over job numbers, water sources, iron placement.
5	Assessment Of Location Safety Meeting	Assessment Of Location Safety Meeting	1/15/2022	14:31:00					hazard hunt, check location, bulk and water volumes. temp 63, ph 6, chlo 0. tp 3352, fc 3311.7, sj 40.34, 9.625 36# J55, oh 13.5", cnt 28, wf 8.7ppg
6	Safety Meeting - Pre Rig-Up	Safety Meeting - Pre Rig-Up	1/15/2022	14:50:00					meeting with hes personnel to discuss safety/hazards associated with rigging up
7	Rig-Up Equipment	Rig-Up Equipment	1/15/2022	14:55:00					
8	Casing on Bottom	Casing on Bottom	1/15/2022	16:15:00					rig landed casing
9	Circulate Well	Start Circulation	1/15/2022	16:20:00					rig started circulating

10	Rig-Up Equipment	Rig-Up Equipment	1/15/2022	16:22:00					cmt head to floor, kelly to floor, hard line tied to kelly
11	Pre-Job Safety Meeting	Pre-Job Safety Meeting	1/15/2022	16:43:00	7.95	0.00	-16.00	39.30	meeting with all personnel on location to discuss safety/hazards associated with job, also covered job procedures. all personnel signed jsa
12	Break Circulation	KO Mud Pumps	1/15/2022	16:51:00	7.95	0.00	-12.00	39.30	ko rig pumps, rig hes iron
13	Start Job	Start Job	1/15/2022	17:01:00	0.65	0.00	22.00	0.00	online
14	Drop Bottom Plug	Drop Bottom Plug	1/15/2022	17:02:00	0.00	0.00	24.00	0.00	bottom plug provided by Manny
15	Pump Water	Fill Lines	1/15/2022	17:03:19	2.39	0.00	26.00	0.00	test lines 2bpm pumped 3bbbls top psi was 130
16	Test Lines	Test Lines	1/15/2022	17:06:35	7.99	0.00	49.00	0.00	test eko, 5th gear stall and test hard lines to 4400, psi fell at 1psi/2sec
17	Pump Spacer 1	Pump FW Spacer	1/15/2022	17:12:08	0.00	0.00	11.00	0.00	pump 20bbbls of fw spacer, pumped at 4bpm and average psi was 150. spacer marked with green dye used as indicator from fw to cmt
18	Pump Cement	Pump Cement	1/15/2022	17:21:02	13.18	4.00	195.00	21.60	pumped 352bbbls of cmt, 1130sk, 13.5ppg, 1.75 yield, 9.23 gal/sk pumped at 8bpm and average psi was 450. weight confirmed using pressurized mud scales. annular fill 291.6, shoe volume 3.1bbbls with 57bbbls to surface on a gauged hole.
19	Other	Other	1/15/2022	17:55:09	13.92	2.10	34.00	257.90	lost prime on 4x4 water centrifugal pump
20	Shutdown	Shutdown	1/15/2022	18:17:21	14.58	0.00	27.00	372.10	done pumping cmt
21	Drop Top Plug	Drop Top Plug	1/15/2022	18:20:43	0.02	0.00	-5.00	0.00	dropped top plug witnessed by Mr. Manny with Crestone
22	Pump Displacement	Pump FW Displacement	1/15/2022	18:21:54	0.02	1.20	-4.00	0.00	fw disp, FC 3311.7 X .0773(9.625 36#)= 256bbbls

23	Shutdown	Shutdown	1/15/2022	18:57:59	8.42	0.00	951.00	231.80	shutdown to stage cmt/ swap hoses
24	Bump Plug	Bump Plug	1/15/2022	19:12:32	8.46	0.00	1423.00	267.00	plug bumped at calculated volume 256. bumped at 3bpm psi 1175 ko pumps at 1675, psi climbed to 1750 and held solid
25	Check Floats	Check Floats	1/15/2022	19:14:32	8.46	0.00	1719.00	0.00	floats held 2bbls back to the pump
26	End Job	End Job	1/15/2022	19:16:22	8.40	0.00	6.00	0.00	cmt job complete.
27	Cement Returns to Surface	Cement Returns to Surface	1/15/2022	19:17:00	8.39	0.00	6.00	0.00	rig took back 42bbls of cmt
28	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	1/15/2022	19:20:00					meeting to discuss safety/hazards associated with rigging down
29	Rig-Down Equipment	Rig-Down Equipment	1/15/2022	19:22:00					
30	Depart Location for Service Center or Other Site	Depart Location for Service Center or Other Site	1/15/2022	20:50:00					
31	Other	Other	1/15/2022	20:55:00					Thank You for Choosing Halliburton Cement. Parker and Crew. (970)397-4969

3.0 Attachments

3.1 Real Time iCem Job Chart

