

HALLIBURTON

iCem[®] Service

CRESTONE PEAK RESOURCES-EBUS

Prosper Farms 4-65 11-12 2BH Production

Job Date: Tuesday, December 06, 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 **Prosper Farms 4-65 11-12 2BH** cement **Production** 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 52 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 #: 9146049	Quote #:	Sales Order #: 0908284347
Customer: CRESTONE PEAK RESOURCES-EBUS		Customer Rep: Josh Johnson	
Well Name: PROSPER FARMS 4-65 11-12		Well #: 2BH	API/UWI #: 05-005-07512
Field:	City (SAP): WATKINS	County/Parish: ARAPAHOE	State: COLORADO
Legal Description:			
Contractor: PATTERSON-UTI ENERGY		Rig/Platform Name/Num: PATTERSON 345	
Job BOM: 7523 7523			
Well Type: OIL			
Sales Person: HALAMERICA\HX41066		Srvc Supervisor: Brandon Parker	
Job			

Formation Name			
Formation Depth (MD)	Top		Bottom
Form Type	BHST		
Job depth MD	18158ft	Job Depth TVD	7807
Water Depth		Wk Ht Above Floor	4
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	3436	0	0
Casing	0	5.5	4.778	20			0	18145	0	7807
Open Hole Section			8.5				3436	18158	0	7807

Tools and Accessories

Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make
Guide Shoe	5.5				Top Plug	5.5	1	citadel
Float Shoe	5.5	1	citadel	18145	Bottom Plug	5.5	1	citadel
Float Collar	5.5	1	citadel	18140	SSR plug set	5.5		HES
Insert Float	5.5				Plug Container	5.5	1	HES
Stage Tool	5.5				Centralizers	5.5		

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	Tuned Prime Cement Spacer	TUNED PRIME CEMENT SPACER SYS	50	bbl	11.5	3.83	24.17	6	1771

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	ElastiCem	SBM CEM ELASTICEM™ SYS	705	sack	13	1.66	8.3	9	5852
3	IsoBond(tm)	SBM CEM FDP-C1371 SYS	610	sack	13	1.55	7.14	9	4356
4	ElastiCem	SBM CEM ELASTICEM™ SYS	1555	sack	13.2	1.59	7.78	9	12098
5	MMCR Displacement	MMCR Displacement	403	bbl	8.33			10	16193
Comment 959bbbls mix water total used.									

2.0 Real-Time Job Summary

2.1 Job Event Log

Seq No.	Activity	Date	Time	Dwnhole Density (ppg)	Cmb Pump Rate (bbl/min)	Pump A Pressure (psi)	Cmb Stg Total (bbl)	Comments
1	Call Out	12/5/2022	20:30:00					crew called out to 5.5" production casing with an on location time 3:30 for Civitas Resources
2	Pre-Convoy Safety Meeting	12/5/2022	22:45:00					meeting with crew to discuss safety/hazards associated with traveling
3	Depart from Service Center or Other Site	12/5/2022	23:00:00					convoy to location
4	Other	12/6/2022	00:50:00					shutdown in watkins, rig was having catwalk issues
5	Arrive at Location from Service Center	12/6/2022	13:50:00					met with Mr. Frank with Civitas and went over job numbers, water sources, cmt volumes and iron placement
6	Assessment Of Location Safety Meeting	12/6/2022	13:51:00					hazard hunt, check location, bulk and water volumes. water 76, ph 6, chlo 0, td 18158, tp 18145, sj 5', fc 18140, sp 3436, surface casing 9.625 36#, production casing 5.5" 20#, wf 9.2ppg, tvd 7807, eob 8318, kop 7278 Citadel top/bottom plugs and fe
7	Safety Meeting - Pre Rig-Up	12/6/2022	14:00:00					meeting with hes personnel to discuss safety/hazards associated with rigging up
8	Rig-Up Equipment	12/6/2022	14:05:00					rig up iron to red zone, water and bulk
9	Begin Standby Not Due to HES	12/6/2022	15:30:00	8.18	9.33	118.46	13.91	hes went into stand by mode during rig circulation
10	End Standby Not Due to HES	12/6/2022	16:40:00	8.06	0.00	-20.50	21.83	

11	Rig-Up Equipment	12/6/2022	16:43:00	8.04	0.00	-21.52	21.83	finish rigging in hard lines to stand pipe, cmt head to floor to circulate well
12	Casing on Bottom	12/6/2022	16:48:00	8.06	0.00	-23.50	21.83	rig landed casing . TRK casing company
13	Circulate Well	12/6/2022	17:00:00	8.01	0.00	-27.13	21.83	start circulation, pumped at 8.5bpm, psi 915 and pumped 18500 strokes
14	Pre-Job Safety Meeting	12/6/2022	18:05:00	7.82	0.00	-38.41	0.00	meeting with all personnel on location to discuss safety/hazards associated with job, also covered job procedures. all personnel signed jsa
15	Start Job	12/6/2022	18:33:00					mix spacer
16	Break Circulation	12/6/2022	18:34:00	7.79	0.00	-41.25	0.00	ko rig pumps, rig hes iron
17	Start Job	12/6/2022	18:38:13	7.78	0.00	-40.94	0.00	start recording real time data
18	Drop Bottom Plug	12/6/2022	18:39:16	5.98	0.00	-40.74	0.00	bottom plug pre loaded prior to starting cmt job. plug loaded by Josh Kliesen with Civitas
19	Pump Water	12/6/2022	18:39:29	7.86	0.43	-42.90	0.00	pumped 3bbls at 3bpm top psi was 440
20	Check Weight	12/6/2022	18:40:52	8.16	0.00	185.58	3.10	
21	Test Lines	12/6/2022	18:41:35	8.13	0.00	157.50	0.00	test eko, 5th gear stall and high psi test 5400. psi held solid 1psi loss/5 seconds
22	Pump Spacer 1	12/6/2022	18:48:15	7.92	1.27	72.84	0.02	pumped 50bbls of tuned prime, 11.5ppg, 3.83 yield, 24.17gal/sk pumped at 6bpm and average psi was 400. weight confirmed using pressurized mud scales. calculated all 50bbls of spacer to surface
23	Pump Cement	12/6/2022	18:56:10	11.51	5.89	325.81	0.05	pumped 208.4bbls of cap cement, 705sks, 13ppg, 1.66 yield, 8.3 gal/sk pumped at 9bpm and average psi was 550. weight confirmed using pressurized mud scales. set time at 70bc 5:30hrs. calculated 52bbls of cap cmt to surface, 156.1bbls left inside surface casing. MW 5852

24	Check Weight	12/6/2022	18:59:18	12.87	5.86	329.86	18.42	
25	Other	12/6/2022	19:06:53	12.01	1.90	-23.19	59.08	lost cmt in dh, swap was slow to lead
26	Check Weight	12/6/2022	19:13:14	13.03	9.23	370.86	115.15	
27	Other	12/6/2022	19:21:48	13.07	9.19	372.54	193.95	slow rate to assure cap silo was mt
28	Pump Lead Cement	12/6/2022	19:25:00	13.10	6.70	219.77	0.95	pumped 168.4bbls of latex cmt, 610sks, 13ppg, 1.55 yield, 7.14gal/sk pumped at 9bpm and average psi was 600. weight confirmed using pressurized mud scales. set time at 70bc 4:50hrs. calculated top of lead cmt at 3258.50ft. MW 4356
29	Check Weight	12/6/2022	19:32:05	13.09	9.16	532.22	63.70	
30	Other	12/6/2022	19:44:36	13.00	7.02	460.26	178.82	slow rate to assure lead silo was mt
31	Pump Tail Cement	12/6/2022	19:45:13	13.06	7.05	310.05	1.18	pumped 440.3bbls of tail cmt, 1555sks, 13.2ppg, 1.59 yield, 7.78 gal/sk pumped at 9bpm and average psi was 500. weight confirmed using pressurized mud scales. set time at 70bc is 4:33hrs. calculated top of tail cmt at 7356ft. MW 12098
32	Slow Rate	12/6/2022	20:06:44	13.11	9.14	417.53	193.58	slow rate to assure tail silo was mt
33	Check Weight	12/6/2022	20:09:57	13.13	9.09	397.96	221.32	
34	Check Weight	12/6/2022	20:11:28	13.15	9.15	393.32	235.23	
35	Slow Rate	12/6/2022	20:34:01	13.19	8.38	403.59	442.28	slow rate to assure tail silo was mt and also slowed rate to maintain density
36	Shutdown	12/6/2022	20:38:48	13.00	0.00	133.55	473.80	done pumping cmt.
37	Clean Lines	12/6/2022	20:43:12	13.03	0.00	-10.04	0.00	closed three valves on hes manifold to well. cleaned lines and pump to 4sided tank below rig stairs. pumped 19bbls to clean lines and pump

38	Shutdown	12/6/2022	20:49:11	7.57	4.83	100.47	20.15	offline
39	Drop Top Plug	12/6/2022	20:50:57	7.81	0.00	-13.45	0.00	top plug pre loaded while hes was washing lines and pumps. loaded by Civitas company rep Josh Kliesen and witnessed by HES supervisor
40	Pump Displacement	12/6/2022	20:51:14	7.57	0.84	-6.32	0.03	calculated disp. fc set at 18140ft x .0222 =402.7bbls. 10 gallons mmcr in the first 20bbls of displacement
41	Other	12/6/2022	20:52:02	1.22	0.00	34.18	3.00	shutdown to verify plug departed plug container
42	Resume Pumping	12/6/2022	20:54:11	7.92	0.00	-14.63	3.00	resumed pumping after verifying top plug was not in the plug container
43	Other	12/6/2022	20:57:21	7.90	10.08	286.02	33.64	displacement caught cmt
44	Slow Rate	12/6/2022	21:34:23	8.59	8.78	3149.23	382.35	slow rate at 370bbls, 9bpm 3150psi to 4bpm, 2550psi
45	Bump Plug	12/6/2022	21:40:24	8.56	4.15	2962.48	407.83	plug bumped at calculated volumes of 402.7bbls, psi 2550 and ko pumps at 3100, psi climbed to 3300 and held solid
46	Check Floats	12/6/2022	21:42:22	8.57	0.00	3302.16	0.00	citadel floats held 4.5bbls back to the pump truck
47	End Job	12/6/2022	21:43:48	8.27	0.00	-23.34	0.00	cmt job complete
48	Resume	12/6/2022	21:47:51	0.57	0.00	-35.24	0.00	clean hes hts
49	Pump Water	12/6/2022	21:50:53	8.43	3.18	-16.50	0.22	pumped 40bbls to flush stack/used 100lbs sugar
50	End Job	12/6/2022	21:59:02	0.57	0.00	-34.61	54.20	
51	Spacer Returns to Surface	12/6/2022	22:00:00	0.57	0.00	-34.87	54.20	rig took back 50bbls of tuned prime spacer
52	Cement Returns to Surface	12/6/2022	22:01:00	0.57	0.00	-35.07	54.34	rig took back 52bbls of cap cmt
53	Pre-Rig Down Safety Meeting	12/6/2022	22:03:00	0.57	0.00	-36.06	54.34	meeting to discuss safety/hazards associated with rigging down
54	Rig-Down Equipment	12/6/2022	22:04:00	0.57	0.00	-35.90	54.34	

55	Depart Location for Service Center or Other Site	12/6/2022	23:00:00
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56	Other	12/6/2022	23:01:00
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Thank You for Choosing Halliburton Cement. Parker and
Crew. (970)397-4969

3.0 Attachments

3.1 Real Time iCem Job Chart

