HALLIBURTON

Cementing

CAERUS OIL AND GAS LLC - EBUS

Island Ranch 21D-24

Patterson 303

Post Job Summary
Cement Surface Casing

Date Prepared: 7/15/2014
Job Date: 7/01/2014

Submitted by: Tony Eschete - Cement Engineer

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Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 360446	**Ship To #:** 3474634	**Quote #:**	**Sales Order #:** 0901469366
Customer: CAERUS OIL AND GAS LLC - EBUS		**Customer Rep:** BOYD COTTAM	
Well Name: ISLAND RANCH	**Well #:** 21D-24		**API/UWI #:** 05-045-22395-00
Field: PARACHUTE	**City (SAP):** PARACHUTE	**County/Parish:** GARFIELD	**State:** COLORADO
Legal Description: 13-7S-96W-1279FSL-1065FWL			
Contractor: PATTERSON-UTI ENERGY		**Rig/Platform Name/Num:** PATTERSON 303	
Job BOM: 7521			
Well Type: DIRECTIONAL GAS			
Sales Person: HALAMERICA\HB80977		**Srvc Supervisor:** Jesse Slaughter	

Job

Formation Name					
Formation Depth (MD)	**Top**		**Bottom**		
Form Type			**BHST**		
Job depth MD	1005ft		**Job Depth TVD**		
Water Depth			**Wk Ht Above Floor**	7ft	
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	3	16	15.124	75			0	85	0	0
Casing		9.625	8.921	36	LTC	J-55	0	1005		0
Open Hole Section			13.5				85	1020	0	0

Tools and Accessories

Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make
Guide Shoe	9.625	1		1005		**Top Plug**	9.625	1	HES
Float Shoe	9.625	1				**Bottom Plug**	9.625		HES
Float Collar	9.625	1		961.74		**SSR plug set**	9.625		HES
Insert Float	9.625					**Plug Container**	9.625	1	HES
Stage Tool	9.625					**Centralizers**	9.625		HES

Miscellaneous Materials

Gelling Agt		**Conc**		**Surfactant**		**Conc**		**Acid Type**		**Qty**		**Conc**	
Treatment Fld		**Conc**		**Inhibitor**		**Conc**		**Sand Type**		**Size**		**Qty**	

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	Tail Cement	VERSACEM (TM) SYSTEM	265	sack	12.8	2.18		8	12.11
12.07 Gal		FRESH WATER							

Cement Left In Pipe	**Amount**	43.26 ft	**Reason**	Shoe Joint
Comment				

3.1 Job Event Log

Type	Seq. No.	Graph Label	Date	Time	Source	DH Density (ppg)	Comb Pump Rate (bbl/min)	PS Pump Press (psi)	Pump Stg Tot (bbl)	Comment
Event	1	Call Out	6/30/2014	20:00:00	USER					
Event	2	Pre-Convoy Safety Meeting	6/30/2014	22:30:00	USER					WITH ALL HES PERSONNEL
Event	3	Crew Leave Yard	6/30/2014	23:00:00	USER					
Event	4	Arrive At Loc	7/1/2014	00:30:00	USER					RIG WAS RUNNING CASING UPON HES ARRIVAL
Event	5	Assessment Of Location Safety Meeting	7/1/2014	00:40:00	USER					WITH ALL HES PERSONNEL
Event	6	Spot Equipment	7/1/2014	00:55:00	USER					
Event	7	Pre-Rig Up Safety Meeting	7/1/2014	01:00:00	USER					WITH ALL HES PERSONNEL
Event	8	Rig-Up Equipment	7/1/2014	01:05:00	USER					
Event	9	Pre-Job Safety Meeting	7/1/2014	02:30:00	USER					WITH ALL PERSONNEL
Event	10	Start Job	7/1/2014	02:43:00	COM7					TD 1020 FT, TP 1005 FT, SHOE 43.26 FT, CSG 9 5/8 IN 36 LB/FT, HOLE 13 1/2 IN, MUD WT 9.8 PPG
Event	11	Prime Pumps	7/1/2014	02:46:11	COM7	8.33	2.0	36.0	2.0	FRESH WATER. TESTED LINES TO 3405 PSI PRESSURE HOLDING
Event	12	Pump H20 Spacer	7/1/2014	02:59:27	COM7	8.33	4.0	95.0	20.0	FRESH WATER
Event	13	Pump Tail Cement	7/1/2014	03:04:49	COM7	12.8	8.0	350.0	102.9	265 SKS AT 12.8 PPG, 2.18 FT3/SK, 12.11 GAL/SK
Event	14	Shutdown	7/1/2014	03:21:57	USER					
Event	15	Drop Top Plug	7/1/2014	03:25:31	COM7					PLUG LAUNCHED
Event	16	Pump Displacement	7/1/2014	03:28:51	COM7	8.33	10.0	503.0	74.3	FRESH WATER
Event	17	Slow Rate	7/1/2014	03:40:30	USER	8.33	2.0	235.0	64.3	SLOWED RATE 10 BBL PRIOR TO CALCULATED DISPLACEMENT
Event	18	Bump Plug	7/1/2014	03:46:35	COM7			900.0		
Event	19	Check Floats	7/1/2014	03:50:13	USER					FLOATS HOLDING. HES RETURNED 1/2 BBL H20 TO PUMP
Event	20	End Job	7/1/2014	03:50:45	COM7					PIPE WAS STATIC DURING JOB, GOOD CIRCULATION THROUGHOUT JOB. HES RETURNED 19 BBL CEMENT TO SURFACE. USED 40 LB SUGAR FOR JOB.

Event	21	Pre-Rig Down Safety Meeting	7/1/2014	03:55:00	USER	WITH ALL HES PERSONNEL
Event	22	Rig-Down Equipment	7/1/2014	04:00:00	USER	
Event	23	Pre-Convoy Safety Meeting	7/1/2014	04:50:00	USER	WITH ALL HES PERSONNEL
Event	24	Crew Leave Location	7/1/2014	05:00:00	USER	
Event	25	Comment	7/1/2014	05:01:00	USER	THANK YOU FOR USING HALLIBURTON CEMENT DEPARTMENT. JESSE SLAUGHTER AND CREW