

HALLIBURTON

077-10200

BLACK HILLS EXPLORATION & PROD-EBIZ

DHS 3C-19 D17
BRONCO FLATS
Mesa County , Colorado

Cement Surface Casing
19-Jun-2013

Job Site Documents

The Road to Excellence Starts with Safety

Sold To #: 306454	Ship To #: 3005273	Quote #:	Sales Order #: 900527673
Customer: BLACK HILLS EXPLORATION & PROD-EBIZ		Customer Rep: Hattfield, Kit	
Well Name: DHS	Well #: 3C-19 D17	API/UWI #:	
Field: BRONCO FLATS	City (SAP): DE BEQUE	County/Parish: Mesa	State: Colorado
Contractor: H&P		Rig/Platform Name/Num: H&P 319	
Job Purpose: Cement Surface Casing			
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: FLING, MATTHEW		Srvc Supervisor: SMITH, CHRISTOPHER	MBU ID Emp #: 452619

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BRENNECKE, ANDREW Bailey	8.0	486345	JAMISON, PRICE W	8.0	229155	LAULAINEN, ROGER Edward	8.0	524413
SMITH, CHRISTOPHER Scott	8.0	452619						

Equipment

HES Unit #	Distance-1 way						
10248065	50 mile	10297346	50 mile	10564022	50 mile	10567589C	50 mile
11071559	50 mile	11259884	50 mile	11808829	50 mile		

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
6/19/2013	6	1	6/20/19/2013	2	0.5			

TOTAL Total is the sum of each column separately

Job

Job Times

Formation Name	Top	Bottom	Called Out	Date	Time	Time Zone
Formation Depth (MD)			On Location	19 - Jun - 2013	10:00	MST
Form Type		BHST	Job Started	19 - Jun - 2013	17:30	MST
Job depth MD	1008. ft	Job Depth TVD	Job Completed	19 - Jun - 2013	23:15	MST
Water Depth		Wk Ht Above Floor	Departed Loc	20 - Jun - 2013	01:09	MST
Perforation Depth (MD)	From	To		20-Jun-2013	03:00	MST

Well Data

Description	New / Used	Max pressure psig	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
14 3/4" Open Hole				14.75				120.	1000.		
10 3/4" Surface Casing	Unknown		10.75	10.05	40.5		J-55	.	1008.	.	1005.
20" Conductor Casing	Unknown		20.	19.124	94.			.	120.		

Sales/Rental/3rd Party (HES)

Description	Qty	Qty uom	Depth	Supplier
PLUG,CMTG, TOP, 10 3/4, HWE, 9.09 MIN/10.09	1	EA		

Tools and Accessories

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe	10.75	1		1005	Packer					Top Plug	10.75	1	HES
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar	10.75	1		971	Retainer					SSR plug set			
Insert Float										Plug Container	10.75	1	HES
Stage Tool										Centralizers			

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 ft ³ /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	Water Spacer				30.00	bbl	8.33	.0	.0	4.0	
2	Lead Cement	VERSACEM (TM) SYSTEM (452010)			100.0	sacks	12.3	2.38	13.75	5.0	13.75
3	Tail Cement	VERSACEM (TM) SYSTEM (452010)			230.0	sacks	12.8	2.11	11.75	5.0	11.75
11.75 Gal		FRESH WATER									
4	Displacement				95.00	bbl	9.3	.0	.0	5.0	
Calculated Values			Pressures			Volumes					
Displacement	95.3	Shut In: Instant				Lost Returns		Cement Slurry		128.8	Pad
Top Of Cement	SURFACE	5 Min				Cement Returns		25	Actual Displacement		95.3
Frac Gradient		15 Min				Spacers		Load and Breakdown		Total Job	
Rates											
Circulating		Mixing		5	Displacement		5	Avg. Job		5	
Cement Left In Pipe	Amount	33.7 ft	Reason	Shoe Joint							
Frac Ring # 1 @	ID	Frac ring # 2 @	ID	Frac Ring # 3 @	ID	Frac Ring # 4 @	ID				
The Information Stated Herein Is Correct						Customer Representative Signature					

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Cementing Job Log

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Customer: BLACK HILLS EXPLORATION & PROD-EBIZ		Customer Rep: Hattfield, Kit	
Well Name: DHS	Well #: 3C-19 D17	API/UWI #:	
Field: BRONCO FLATS	City (SAP): DE BEQUE	County/Parish: Mesa	State: Colorado
Legal Description:			
Lat:		Long:	
Contractor: H&P	Rig/Platform Name/Num: H&P 319		
Job Purpose: Cement Surface Casing			Ticket Amount:
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: FLING, MATTHEW	Srvc Supervisor: SMITH, CHRISTOPHER	MBU ID Emp #: 452619	

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	06/19/2013 10:00							REQUESTED ON LOCATION AT 1830
Pre-Convoy Safety Meeting	06/19/2013 15:45							ALL HES PRESENT
Crew Leave Yard	06/19/2013 16:00							
Arrive At Loc	06/19/2013 17:30							RIG PULLING DRILL PIPE
Assessment Of Location Safety Meeting	06/19/2013 18:00							ALL HES PRESENT
Rig-Up Equipment	06/19/2013 18:45							
Pre-Job Safety Meeting	06/19/2013 23:00							ALL HES PRESENT
Start Job	06/19/2013 23:15							TD 1008', TP 1005', SJ 33.7', OH 14.75", CSG 10.75", 40.5#, MUD 9.3
Pump Water	06/19/2013 23:17		2	2			42.0	FRESH WATER
Test Lines	06/19/2013 23:22		0.5	0.5				ALL LINES HELD PRESSURE AT 2469 PSI
Pump Spacer 1	06/19/2013 23:26		4	30			95.0	FRESH WATER
Pump Lead Cement	06/19/2013 23:34		5	42.4			135.0	100SKS , 12.3PPG, 2.38FT3/SK, 13.75GAL/SK 10LBS TOUGH FIBER ADDED
Pump Tail Cement	06/19/2013 23:43		5	86.4			145.0	230SKS, 12.8PPG, 2.11FT3/SK, 11.75GAL/SK 25LBS TOUGH FIBER ADDED
Shutdown	06/20/2013 00:02							

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SUMMIT Version: 7.3.0081

Thursday, June 20, 2013 02:04:00

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Cementing Job Log

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Other	06/20/2013 00:03							WASH UP ON TOP OF PLUG
Pump Displacement	06/20/2013 00:05		5	85.5			234.0	9.3PPG MUD
Slow Rate	06/20/2013 00:26		2	10			200.0	
Bump Plug	06/20/2013 00:27						703.0	PLUG BUMPED
Check Floats	06/20/2013 00:29							FLOATS HELD
Pressure Up	06/20/2013 00:37		0.5	0.5			1500.0	30 MINUTE CASING PRESSURE TEST
End Job	06/20/2013 01:07							PIPE WAS NOT MOVED THROUGH OUT JOB, GOOD RETURNS, 25 BLLS OF CEMENT TO SURFACE. RIG WAS GIVEN 200LBS SUGAR.
Post-Job Safety Meeting (Pre Rig-Down)	06/20/2013 01:10							ALL HES PRESENT
Rig-Down Equipment	06/20/2013 01:20							
Pre-Convoy Safety Meeting	06/20/2013 03:30							ALL HES PRESENT
Crew Leave Location	06/20/2013 03:45							THANK YOU FOR USING HALLIBURTON CEMENT, CHRIS SMITH AND CREW.

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