

PRIMARY Cementing Report

Well: BRAVO DOME UNIT 1930 041G	Event Name: DEV DRILLING	Report Date: 7/7/2011
Project: BRAVO DOME	Prim. Reason: ORIG DRILL VERT	Report No.: 2
Site: BRAVO DOME C02 UNIT	Start Date: 7/5/2011	Wellbore: 00
Active Datum: Original KB @4,641.90ft (above Mean Sea Level)	End Date: 7/8/2011	30-021-20523

General Job Information

Contractor: HALLIBURTON	Cemented Assembly:		
WOC Time:	Assembly Size: 5.500 (in)	Actual TOC MD: 12.00 (ft)	
Foam: N	Assembly Btm MD: 2129 (ft)	TOC Locate Method: Cmt Returns at Surf	
Cement:			
Not Ready to FN	Assembly Set Date: 07/08/2011	Total Slurry in Well:	
Static BHT:	Hole Size: 12.250 (in)	Excess Slurry Volume: 892.3 (bbl)	
Returns: Full	Volume Lost: 0.0 (bbl)	Est Cmt Vol Returns to Surf: 95.5 (bbl)	

Pipe Movement - No Movement

Rotating		Reciprocating	
Rotating Start:	Init Rot. Torque: (ft-lbf)	Reciprocate Start:	Stroke Length:
Rotating End:	Avg Rot. Torq.:	Reciprocate End:	Drag Wt. Up:
Rotating RPM:	Max Rot. Torq.:	Reciprocate SPM:	Drag Wt. Down:

Stage 1 - Primary 12 - 2,129 ft

CTU Used:	Top Plug Used: Y	Annular Flow: Y	Press. Prior to Bump: 480 (psi)
Circulate Prior: 1.50 (hr)	Bottom Plug Used:	Ann Press Held:	Bump Press.: 880 (psi)
Circulate Flow Rate: 380.0 (gpm)	Bumped Plug: Y	Float Held: Y	Press. Over Pumping:
Circulate Press: 225 (psi)	Plug Catcher Used:	Pill Spotted Below Plug:	Duration Press. Held: 5.0 (min)

FRESH WATER

Pumping Start: 17:26	Slurry Type: SPACER	Total Slurry Volume: 0.0 (bbl)	Slurry Top MD:
Pumping End: 17:27	Class:	Excess Slurry Percent:	Slurry Btm MD:
Rate: 5.00 (bbl/min)	Density: 8.30 (ppg)	Excess Measured By:	Total Water Vol Used: 0.0 (bbl)
Foam Job:	Yield:	Mix Water Ratio:	Actual Sacks Used:
		Mix Method:	

Additive Name

CALC2

Additive Type

ACCELERATOR

Additive Conc.

Additive Amount

LEAD CEMENT

Pumping Start: 17:31	Slurry Type: CEMENT	Total Slurry Volume: 173.7 (bbl)	Slurry Top MD:
Pumping End: 18:01	Class: PREM PLUS	Excess Slurry Percent: 400.00 (%)	Slurry Btm MD:
Rate: 6.50 (bbl/min)	Density: 11.10 (ppg)	Excess Measured By:	Total Water Vol Used: 146.0 (bbl)
Foam Job:	Yield: 3.2500 (ft ³ /sk)	Mix Water Ratio: 20.440 (gal/sk94)	Actual Sacks Used: 300
		Mix Method:	

Additive Name

CALC2

Additive Type

ACCELERATOR

Additive Conc.

2.000 % BWOC

Additive Amount

4.00 bbl

POL-E FLAKES

CIRCULATION LOSSES

0.250 lbs/sk

87.50 lbs

TAIL CEMENT

Pumping Start: 18:02	Slurry Type: CEMENT	Total Slurry Volume: 49.4 (bbl)	Slurry Top MD:
Pumping End: 18:12	Class: PREM PLUS	Excess Slurry Percent: 400.00 (%)	Slurry Btm MD:
Rate: 6.50 (bbl/min)	Density: 13.20 (ppg)	Excess Measured By:	Total Water Vol Used: 35.5 (bbl)
Foam Job:	Yield: 1.8500 (ft ³ /sk)	Mix Water Ratio: 9.950 (gal/sk94)	Actual Sacks Used: 150
		Mix Method:	

Additive Name

CALC2

Additive Type

ACCELERATOR

Additive Conc.

2.000 % BWOC

Additive Amount

1.00 bbl

POL-E FLAKES

CIRCULATION LOSSES

0.250 lbs/sk

37.50 lbs

FRESH WATER

Pumping Start: 18:17	Slurry Type: DISPLACEMENT	Total Slurry Volume: 0.0 (bbl)	Slurry Top MD:
Pumping End: 18:34	Class:	Excess Slurry Percent:	Slurry Btm MD:
Rate: 7.50 (bbl/min)	Density: 8.30 (ppg)	Excess Measured By:	Total Water Vol Used: 0.0 (bbl)
Foam Job:	Yield:	Mix Water Ratio:	Actual Sacks Used:
		Mix Method:	

Additive Name

CALC2

Additive Type

ACCELERATOR

Additive Conc.

Additive Amount

Remarks

CEMENT JOB WENT AS PLAN GOOD CEMENT CREW.

PRIMARY Cementing Report

Well: BRAVO DOME UNIT 1930 041G	Event Name: DEV DRILLING	Report Date: 7/6/2011
Project: BRAVO DOME	Prim. Reason: ORIG DRILL VERT	Report No.: 1
Site: BRAVO DOME C02 UNIT	Start Date: 7/5/2011	Wellbore: 00
Active Datum: Original KB @4,641.90ft (above Mean Sea Level)	End Date: 7/8/2011	

General Job Information

Contractor: HALLIBURTON	Cemented Assembly: SURFACE CASING		
WOC Time: 8.00 (hr)	Assembly Size: 8.625 (in)	Actual TOC MD: 12.00 (ft)	
Foam: N	Assembly Btm MD: 786 (ft)	TOC Locate Method: Cmt Returns at Surf	
Cement:			
Not Ready to FN	Assembly Set Date: 07/06/2011	Total Slurry in Well: 317.0 (bbl)	
Static BHT:	Hole Size: 12.250 (in)	Excess Slurry Volume: 304.9 (bbl)	
Returns: Full	Volume Lost: 0.0 (bbl)	Est Cmt Vol Returns to Surf: 0.0 (bbl)	

Pipe Movement - No Movement

Rotating		Reciprocating	
Rotating Start:	Init Rot. Torque: (ft-lbf)	Reciprocate Start:	Stroke Length:
Rotating End:	Avg Rot. Torq.:	Reciprocate End:	Drag Wt. Up:
Rotating RPM:	Max Rot. Torq.:	Reciprocate SPM:	Drag Wt. Down:

Stage 1 - Primary 50 - 786 ft

CTU Used:	Top Plug Used:	Annular Flow:	Press. Prior to Bump:
Circulate Prior:	Bottom Plug Used:	Ann Press Held:	Bump Press.:
Circulate Flow Rate:	Bumped Plug:	Float Held:	Press. Over Pumping:
Circulate Press:	Plug Catcher Used:	Pill Spotted Below Plug:	Duration Press. Held:

FRESH WATER

Pumping Start: 14:29	Slurry Type: SPACER	Total Slurry Volume: 0.0 (bbl)	Slurry Top MD:
Pumping End: 14:31	Class:	Excess Slurry Percent:	Slurry Btm MD:
Rate: 6.50 (bbl/min)	Density: 8.30 (ppg)	Excess Measured By:	Total Water Vol Used: 0.0 (bbl)
Foam Job:	Yield:	Mix Water Ratio:	Actual Sacks Used:
		Mix Method:	

LEAD CEMENT

Pumping Start: 14:32	Slurry Type: CEMENT	Total Slurry Volume: 76.2 (bbl)	Slurry Top MD:
Pumping End: 15:00	Class: PREM PLUS	Excess Slurry Percent: 400.00 (%)	Slurry Btm MD:
Rate: 6.00 (bbl/min)	Density: 14.80 (ppg)	Excess Measured By:	Total Water Vol Used: 47.9 (bbl)
Foam Job:	Yield: 1.3500 (ft ³ /sk)	Mix Water Ratio: 6.350 (gal/sk94)	Actual Sacks Used: 317
		Mix Method:	
<u>Additive Name</u>	<u>Additive Type</u>	<u>Additive Conc.</u>	<u>Additive Amount</u>
CALC2	ACCELERATOR	2.000 % BWOC	50.00 Sacks
POL-E FLAKES	CIRCULATION LOSSES	0.250 gal/bbl	150.00 lb/Mgal

FRESH WATER

Pumping Start: 15:02	Slurry Type: DISPLACEMENT	Total Slurry Volume: 0.0 (bbl)	Slurry Top MD:
Pumping End: 15:17	Class:	Excess Slurry Percent: 400.00 (%)	Slurry Btm MD:
Rate: 6.00 (bbl/min)	Density: 8.30 (ppg)	Excess Measured By:	Total Water Vol Used: 0.0 (bbl)
Foam Job:	Yield:	Mix Water Ratio:	Actual Sacks Used:
		Mix Method:	

Remarks

GOOD JOB CREW AND EQUIPMENT JOB WENT AS PLAN.