
OXY GRAND JUNCTION EBUSINESS

**CC 697-08-54A
GRAND VALLEY
Garfield County , Colorado**

Cement Surface Casing
08-Sep-2010

Job Site Documents

The Road to Excellence Starts with Safety

Sold To #: 344034	Ship To #: 2805705	Quote #:	Sales Order #: 7620907
Customer: OXY GRAND JUNCTION EBUSINESS	Customer Rep: Silva, Marco		
Well Name: CC	Well #: 697-08-54A	API/UWI #: 05-045-19285	
Field: GRAND VALLEY	City (SAP): PARACHUTE	County/Parish: Garfield	State: Colorado
Lat: N 39.531 deg. OR N 39 deg. 31 min. 50.3 secs.	Long: W 108.233 deg. OR W -109 deg. 46 min. 0.448 secs.		
Contractor: H&P Drilling	Rig/Platform Name/Num: H&P 330		
Job Purpose: Cement Surface Casing			
Well Type: Development Well	Job Type: Cement Surface Casing		
Sales Person: DUNNING, DUSTIN	Srv Supervisor: NELSON, RYAN	MBU ID Emp #: 386514	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
FEUERBORN, JOHN William	16	381677	LUNCFORD, STEVEN John	16	457512	NELSON, RYAN Cody	16	386514
REEVES, BRANDON W	16	287883						

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10000394	120 mile	10296152C	120 mile	10297346	120 mile	10804567	120 mile
10951245	120 mile	11071559	120 mile				

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
9/7/10	12.5	4	9/8/10	4	3			

TOTAL Total is the sum of each column separately

Job	Job Times
Formation Name	Date Time Time Zone
Formation Depth (MD) Top Bottom	Called Out 07 - Sep - 2010 07:00 MST
Form Type BHST	On Location 07 - Sep - 2010 12:00 MST
Job depth MD 2730. ft Job Depth TVD 2730. ft	Job Started 07 - Sep - 2010 20:35 MST
Water Depth Wk Ht Above Floor 4. ft	Job Completed 08 - Sep - 2010 02:25 MST
Perforation Depth (MD) From To	Departed Loc 08 - Sep - 2010 04:00 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
Open Hole				14.75				0	2730.		
Surface Casing			9.625	8.921	36.			0	2710.		

Sales/Rental/3rd Party (HES)

Description	Qty	Qty uom	Depth	Supplier
PLUG,CMTG,TOP,9 5/8,HWE,8.16 MIN/9.06 MA	1	EA		
R/A DENSOMETER W/CHART RECORDER,/JOB,ZI	1	JOB		
PORT. DATA ACQUIS. W/OPTICEM RT W/HES	1	EA		
ADC (AUTO DENSITY CTRL) SYS, /JOB,ZI	1	JOB		

Tools and Accessories

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug	9 5/8	1	HES
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container	9 5/8	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		20.00	bbl	8.33	.0	.0	.0	
2	Super Flush 101	SUPER FLUSH 101 - SBM (12199)	20.00	bbl	10.	.0	.0	.0	
3	Water Spacer		20.00	bbl	8.33	.0	.0	.0	
4	Lead Cement	VERSACEM (TM) SYSTEM (452010)	1081.0	sacks	12.3	2.33	12.62		12.62
5	Tail Cement	VERSACEM (TM) SYSTEM (452010)	160.0	sacks	12.8	2.07	10.67		10.67
6	Displacement		205.2	bbl	8.33	.0	.0	.0	
7	Topout Cement	HALCEM (TM) SYSTEM (452986)	50.0	sacks	12.5	1.97	10.96		10.96
Calculated Values		Pressures		Volumes					
Displacement	205.2	Shut In: Instant		Lost Returns	Yes	Cement Slurry	525	Pad	
Top Of Cement	0	5 Min		Cement Returns	85	Actual Displacement	205.2	Treatment	
Frac Gradient		15 Min		Spacers		Load and Breakdown		Total Job	
Rates									
Circulating		Mixing		5	Displacement	6	Avg. Job		5.6
Cement Left In Pipe	Amount	55.5 ft	Reason	Shoe Joint					
Frac Ring # 1 @	ID		Frac ring # 2 @	ID		Frac Ring # 3 @	ID		Frac Ring # 4 @
The Information Stated Herein Is Correct				Customer Representative Signature					

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Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	09/07/2010 07:00							
Arrive At Loc	09/07/2010 12:00							Rig running casing
Pre-Rig Up Safety Meeting	09/07/2010 14:00							
Rig-Up Equipment	09/07/2010 14:20							
Pre-Job Safety Meeting	09/07/2010 20:00							
Start Job	09/07/2010 20:37							TD-2730' TP-2710' SJ-55.5' CASING 9 5/8" 36# HOLE 14 3/4"
Other	09/07/2010 20:38			2			50.0	Fill lines
Test Lines	09/07/2010 20:39						3950.0	
Pump Spacer 1	09/07/2010 20:43		4	20			200.0	Fresh Water
Pump Spacer 2	09/07/2010 20:47		4	20			190.0	Super Flush
Pump Spacer 1	09/07/2010 20:53		6	20			230.0	Fresh water
Pump Lead Cement	09/07/2010 20:58		5	448.6			185.0	1081 sks 12.3 ppg 2.33 yield 12.62 gal/sk. Slowed and sped rate to match cellar pump. Slowed rate also to address mixing issues.
Pump Tail Cement	09/07/2010 22:56		6	59			260.0	160 sks 12.8 ppg 2.07 yield 10.67 gal/sk
Shutdown	09/07/2010 23:16							
Drop Top Plug	09/07/2010 23:16							

Cementing Job Log

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Displacement	09/07/2010 23:17		6	205.2			1070.0	Fresh water
Cement Returns to Surface	09/07/2010 23:30							Well circulated about 85 bbls to surface
Slow Rate	09/07/2010 23:54		2	195			710.0	
Bump Plug	09/07/2010 23:58		2	205.2			1365.0	
Check Floats	09/08/2010 00:02							Floats held
Other	09/08/2010 00:19		1.3	10			325.0	Clear parasite with sugar water
Pressure Up Well	09/08/2010 00:29						1514.0	Pressure test of casing
Release Casing Pressure	09/08/2010 00:46							
End Job	09/08/2010 00:50							Did not have full returns during job. Lost returns on lead for 120 bbls when rate was slowed to resolve mixing issues. Superflush hours 14.
Start Job	09/08/2010 02:10							Pumping through 1" pipe in annulus
Pump Cement	09/08/2010 02:11		3	10			50.0	
Shutdown	09/08/2010 02:14							Cement to surface, fell about 6"
Pump Cement	09/08/2010 02:19		2	12			50.0	
Shutdown	09/08/2010 02:21							Cement to surface, staying at surface
End Job	09/08/2010 02:25							Mixed 50 sks of top out at 12.5 ppg 1.97 yield 10.96 gal.sk. Thank you for using Halliburton-Ryan Nelson & Crew