

The Road to Excellence Starts with Safety

Sold To #: 344034	Ship To #: 2821459	Quote #:	Sales Order #: 7784445
Customer: OXY GRAND JUNCTION EBUSINESS	Customer Rep: Goddeyene, Andy		
Well Name: Shell	Well #: 797-03-31A	API/UWI #: 05-045-17883	
Field: GRAND VALLEY	City (SAP): Parachute	County/Parish: Garfield	State: Colorado
Lat: N 39.478 deg. OR N 39 deg. 28 min. 42.128 secs.	Long: W 108.202 deg. OR W -109 deg. 47 min. 52.67 secs.		
Contractor: Nabors Industries LTD.	Rig/Platform Name/Num: Nabors M-37		
Job Purpose: Cement Surface Casing			
Well Type: Development Well	Job Type: Cement Surface Casing		
Sales Person: DUNNING, DUSTIN	Srvs Supervisor: SMITH, DUSTIN	MBU ID Emp #: 418015	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
SLAUGHTER, JESSE Dean	9.5	454315	SMITH, DUSTIN Michael	9.5	418015	WOLFE, JON	9.5	485217
YUTZY, BRYAN	9.5	478510						

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10296152C	80 mile	10867531	80 mile	10897797	80 mile	10951248	80 mile
10989685	80 mile						

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
11/24/10	9.5	4						

TOTAL Total is the sum of each column separately

Job

Formation Name	Job Times
Formation Depth (MD) Top Bottom	Date Time Time Zone
Form Type BHST	Called Out 23 - Nov - 2010 20:30 MST
Job depth MD 1050. ft Job Depth TVD 1027. ft	On Location 24 - Nov - 2010 00:30 MST
Water Depth Wk Ht Above Floor 5. ft	Job Started 24 - Nov - 2010 06:46 MST
Perforation Depth (MD) From To	Job Completed 24 - Nov - 2010 08:26 MST
	Departed Loc 24 - Nov - 2010 10:00 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
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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	
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container	9 5/8	1	
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	5.0	
2	Gel Spacer		20.00	bbl	.	.0	.0	5.0	
3	Water Spacer		20.00	bbl	.	.0	.0	5.0	
4	VersaCem Lead Cement	VERSACEM (TM) SYSTEM (452010)	135.0	sacks	12.3	2.38	13.75	5.0	13.75
	13.75 Gal	FRESH WATER							
5	SwiftCem Tail Cement	SWIFTCES (TM) SYSTEM (452990)	110.0	sacks	14.2	1.43	6.85	5.0	6.85
	6.85 Gal	FRESH WATER							
6	Displacement		75.1	bbl	.	.0	.0	5.0	
Calculated Values		Pressures		Volumes					
Displacement	75.1	Shut In: Instant		Lost Returns	0	Cement Slurry	85.2	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	12	Actual Displacement	75.1	Treatment	
Frac Gradient		15 Min		Spacers	60	Load and Breakdown		Total Job	220
Rates									
Circulating		Mixing	5	Displacement	5	Avg. Job	5		
Cement Left In Pipe	Amount	55 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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Well Type: Development Well	Job Type: Cement Surface Casing		
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Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	11/23/2010 20:30							ELITE # 9
Depart Yard Safety Meeting	11/23/2010 22:30							ALL HES EMPLOYEES
Arrive At Loc	11/24/2010 00:30							RIG JUST STARTING TO RUN CASING
Assessment Of Location Safety Meeting	11/24/2010 01:00							ALL HES EMPLOYEES
Pre-Rig Up Safety Meeting	11/24/2010 03:30							ALL HES EMPLOYEES
Rig-Up Equipment	11/24/2010 03:45							1 F-450 PICKUP 1 HT- 400 PUMP TRUCK 1 660 BULK TRUCK
Pre-Job Safety Meeting	11/24/2010 06:30							ALL HES EMPLOYEES AND RIG CREW
Rig-Up Completed	11/24/2010 06:45							RIG CIRCULATED FOR 1 HOUR PRIOR TO JOB
Start Job	11/24/2010 06:46							TD: 1050 TP: 1027 SJ: 55 MUD WT: 9.1 9 5/8 36# CSG 12 1/4 O.H.
Test Lines	11/24/2010 06:47					2500. 0		PRESSURE TEST OK
Pump Spacer	11/24/2010 06:53		5	20	20		115.0	FRESH WATER
Pump Spacer 2	11/24/2010 06:57		5	20	20		110.0	GELLED WATER
Pump Spacer 1	11/24/2010 07:01		5	20	20		120.0	FRESH WATER
Pump Lead Cement	11/24/2010 07:09		5	57.2	57.2		170.0	135 SKS 12.3 PPG 2.38 YIELD 13.77 GAL/SK
Pump Tail Cement	11/24/2010 07:21		5	28	28		185.0	110 SKS 14.2 PPG 1.43 YIELD 6.85 GAL/SK
Shutdown	11/24/2010 07:27							

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SUMMIT Version: 7.20.130

Wednesday, November 24, 2010 08:38:00

Cementing Job Log

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Drop Plug	11/24/2010 07:27							PLUG AWAY NO PROBLEMS
Pump Displacement	11/24/2010 07:28		5	75.1	75.1		275.0	FRESH WATER
Slow Rate	11/24/2010 07:42		2	65.1	65.1		270.0	
Bump Plug	11/24/2010 07:46		2	75.1	75.1		740.0	12 BBLS CEMENT TO SURFACE
Check Floats	11/24/2010 07:53							FLOATS HELD
Pressure Up	11/24/2010 07:54		1	1	1		1650.0	PRESSURE UP TO 1500 PSI HOLD FOR 30 MIN TO TEST CASING
End Job	11/24/2010 08:26							GOOD CIRCULATION THROUGHOUT JOB NO PIPE MOVEMENT DURING JOB
Pre-Rig Down Safety Meeting	11/24/2010 08:40							ALL HES EMPLOYEES
Rig-Down Equipment	11/24/2010 08:55							
Pre-Convoy Safety Meeting	11/24/2010 09:30							ALL HES EMPLOYEES
Crew Leave Location	11/24/2010 10:00							THANK YOU FOR USING HALLIBURTON CEMENT DUSTIN SMITH AND CREW

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OXY

9 5/8 SURFACE

