

**NOBLE ENERGY INC E-BUSINESS
DO NOT MAIL-100 GLENBOROUGH DR
HOUSTON, Texas**

Coltrane PMJ 28-5

Ensign 715

Post Job Summary **Squeeze Hole in Casing**

Prepared for:
Date Prepared: 3/19/2013
Version: 1

Service Supervisor: FANTASIA, JOSEPH

Submitted by: FINNEY, SEAN

HALLIBURTON

HALLIBURTON

Wellbore Geometry

Job Tubulars					MD	
Type	Description	Size in	ID in	Wt lbm/ft	Top ft	Bottom ft
Casing	Surface Casing	8.63	8.097	24.00	0.00	330.00
Production Casing	4 1/2" Production Casing				0.00	538.00
Open Hole Section	13" Open Hole		13.000		330.00	538.00

HALLIBURTON

Service Supervisor Reports

Job Log

Date/Time	Chart #	Activity Code	Pump Rate	Cum Vol	Pump	Pressure (psig)	Comments
11/02/2012 07:00		Arrive at Location from Service Center					
11/02/2012 07:15		Assessment Of Location Safety Meeting					
11/02/2012 08:45		Start Job					
11/02/2012 08:50		Test Lines					PRESSURE TEST LINES TO 2500 PSI
11/02/2012 08:58		Pump Spacer 1	2	3		789.0	PUMP 3 BBLs WATER SPACER
11/02/2012 09:06		Pump Cement	2	50		989.0	250 SKS HALCEM MIXED AT 15.8 PPG USING SUPPLIED WATER. CEMENT TO SURFACE AT 40 BBLs OUT OF 50 BBLs TOTAL.. APPROX 10 BBLs CEMENT TO SURFACE.
11/02/2012 09:28		Pump Displacement	2	1		850.0	DISPLACE 1 BBL WATER
11/02/2012 09:30		End Job					

The Road to Excellence Starts with Safety

Sold To #: 345242	Ship To #: 2961553	Quote #:	Sales Order #: 9940425
Customer: NOBLE ENERGY INC E-BUSINESS		Customer Rep: Beam, Ryan	
Well Name: Coltrane		Well #: PMJ 28-5	API/UWI #: 05-123-13989
Field: WATTENBERG	City (SAP): EVANS	County/Parish: Weld	State: Colorado
Lat: N 40.373 deg. OR N 40 deg. 22 min. 23.426 secs.		Long: W 104.792 deg. OR W -105 deg. 12 min. 29.502 secs.	
Contractor: Ensign		Rig/Platform Name/Num: Leed 715	
Job Purpose: Squeeze Hole in Casing			
Well Type: Development Well		Job Type: Squeeze Hole in Casing	
Sales Person: AARON, WESLEY		Srvc Supervisor: FANTASIA, JOSEPH	MBU ID Emp #: 485445

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
FANTASIA, JOSEPH Brandon	3.5	485445	HINKLE, BRADLEY Dean	3.5	512123	RICHEY, JESSICA L	3.5	525703
SMITH, AARON David	3.5	518187						

Equipment

HES Unit #	Distance-1 way						
10248062C	35 mile	11341988C	35 mile	12010169	35 mile		

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
TOTAL			<i>Total is the sum of each column separately</i>					

Job

Job Times

Formation Name	Top	Bottom	Called Out	Date	Time	Time Zone
Form Type		BHST	On Location	02 - Nov - 2012	07:00	MST
Job depth MD	538. ft	Job Depth TVD	Job Started	02 - Nov - 2012	08:50	MST
Water Depth		Wk Ht Above Floor	Job Completed	02 - Nov - 2012	09:30	MST
Perforation Depth (MD)	<i>From</i>	<i>To</i>	Departed Loc	02 - Nov - 2012	10:30	MST

Well Data

Description	New / Used	Max pressure psig	Size in	ID in	Weight lbf/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
13" Open Hole				13.				330.	538.		
4 1/2" Production Casing	Unknown							.	538.		
Surface Casing	Used		8.625	8.097	24.			.	330.	.	330.

Fluid Data

Stage/Plug #: 1

Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbf/gal	Yield ft ³ /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
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1	15.8# Cement	HALCEM (TM) SYSTEM (452986)	250.0	sacks	15.79	1.15	5.0	2.0	5.0
	5 Gal	FRESH WATER							
<i>The Information Stated Herein Is Correct</i>				<i>Customer Representative Signature</i>					