

The Road to Excellence Starts with Safety

Sold To #: 306489		Ship To #: 3186825		Quote #:		Sales Order #: 900940563	
Customer: WHITING OIL & GAS CORP EBUSINESS				Customer Rep: Pettjohn, Will			
Well Name: Razor			Well #: 21B-2809A		API/UWI #: 05-123-37767		
Field: WILD CAT		City (SAP): NEW RAYMER		County/Parish: Weld		State: Colorado	
Legal Description:							
Lat: N 40.83 deg. OR N 40 deg. 49 min. 48 secs.				Long: W 103.868 deg. OR W -104 deg. 7 min. 55.2 secs.			
Contractor: Frontier			Rig/Platform Name/Num: Frontier 26				
Job Purpose: Cement Intermediate Casing						Ticket Amount:	
Well Type: Development Well			Job Type: Cement Intermediate Casing				
Sales Person: PLIENESS, RYAN			Srvs Supervisor: BONE, JEFFERSON			MBU ID Emp #: 491216	

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	12/02/2013 16:00							
Safety Meeting - Departing Location	12/02/2013 18:50							ROAD HAZARDS, ROUTE, CONVOY, FIT FOR DUTY
Arrive at Location from Service Center	12/02/2013 23:00							ARRIVED ON LOCATION, RIG WAS RUNNING CASING
Safety Meeting - Pre Rig-Up	12/03/2013 02:10							PINCH POINTS, LINE OF FIRE, LIFTING, OVERHEAD LOADS, RED ZONES
Rig-Up Equipment	12/03/2013 10:00							
Rig-Up Completed	12/03/2013 10:45							
Safety Meeting - Pre Job	12/03/2013 11:00							CONTINGENCIES, PRESSURE TESTING, MUSTER AREAS, STOP WORK AUTHORITY
Start Job	12/03/2013 11:12							
Test Lines	12/03/2013 11:12							PRESSURE TEST LINES TO 3500PSI
Pump Spacer 1	12/03/2013 11:17		3	20			222.0	TUNED SPACER 10.5 PPG
Pump Lead Cement	12/03/2013 11:26		6	160			360.0	487 SKS 12.7 PPG 1.84 Y 9.76 W MIXED WITH RIG WATER
Pump Cement	12/03/2013 11:59		6	56			295.0	186 SKS 13.8 PPG 1.68 Y 7.75 W MIXED WITH RIG WATER
Shutdown	12/03/2013 12:09							

Cementing Job Log

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Drop Top Plug	12/03/2013 12:10							
Pump Displacement	12/03/2013 12:11		6	225			1600.0	RIG WATER, WASHED UP ON TOP OF PLUG WITH FIRST 20 BBLs, 50 BBLs OF CEMENT BACK TO SURFACE
Bump Plug	12/03/2013 12:47		4				2200.0	
Check Floats	12/03/2013 12:49							1.5 BBL BACK TO TRUCK
Other	12/03/2013 12:52						1500.0	CASING TEST TO 1500 PSI FOR 15 MIN
Safety Meeting - Pre Rig-Down	12/03/2013 13:15							LINE OF FIRE, PINCH POINTS, LIFTING, RED ZONES, OVERHEAD LOADS
Rig-Down Equipment	12/03/2013 13:30							
Rig-Down Completed	12/03/2013 14:30							
Safety Meeting - Departing Location	12/03/2013 14:35							ROUTE, CONVOY, FIT FOR DUTY, ROAD HAZARDS
Depart Location for Service Center or Other Site	12/03/2013 15:00							