

The Road to Excellence Starts with Safety

Sold To #: 345242		Ship To #: 3744833		Quote #:		Sales Order #: 0903619830					
Customer: NOBLE ENERGY INC - EBUS				Customer Rep:							
Well Name: ANNI		Well #: LD29-755		API/UWI #: 05-123-43289-00							
Field: WILDCAT	City (SAP): RAYMER		County/Parish: WELD		State: COLORADO						
Legal Description: SE SW-20-9N-58W-380FSL-1403FWL											
Contractor: H & P DRLG				Rig/Platform Name/Num: H & P 517							
Job BOM: 7523											
Well Type: HORIZONTAL OIL											
Sales Person: HALAMERICA\HB61755				Srv Supervisor: Andrew Brennecke							
Job											
Formation Name											
Formation Depth (MD)		Top		Bottom							
Form Type				BHST		230 degF					
Job depth MD		11136ft		Job Depth TVD		5937					
Water Depth				Wk Ht Above Floor		4					
Perforation Depth (MD)		From		To							
Well Data											
Description	New / Used	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft	
Casing		9.625	8.921	36			0	1915			
Casing		5.5	4.778	20		P-110	0	11136			
Open Hole Section			8.5				1915	11146			
Tools and Accessories											
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make		
Guide Shoe						Top Plug	5.5	1			
Float Shoe	5.5	1		11136		Bottom Plug	5.5	1			
Float Collar	5.5	1		11089		SSR plug set					
Insert Float						Plug Container					
Stage Tool						Centralizers	5.5				
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/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal

1	11.5 lb/gal Tuned Spacer III	Tuned Spacer III	40	bbl	11.5	3.78		4	
35.10 gal/bbl		FRESH WATER							
0.40 gal/bbl		DUAL SPACER SURFACTANT B, 5 GAL PAIL (100003665)							
147.42 lbm/bbl		BARITE, BULK (100003681)							
0.40 gal/bbl		MUSOL A, 330 GAL TOTE - (790828)							
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
2	11.5 lb/gal Tuned Spacer III	Tuned Spacer III	40	bbl	11.5	3.79		4	
35.90 gal/bbl		FRESH WATER							
147.42 lbm/bbl		BARITE, BULK (100003681)							
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
3	Elasticem Lead w/o CBL	ELASTICEM (TM) SYSTEM	150	sack	13.2	1.57		6	7.53
7.52 Gal		FRESH WATER							
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
4	ElastiCem Lead W/ CBL	ELASTICEM (TM) SYSTEM	495	sack	13.2	1.6		8	7.68
7.68 Gal		FRESH WATER							
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
5	EconoCem Tail	ECONOCHEM (TM) SYSTEM	703	sack	13.5	1.68		8	7.99
8 Gal		FRESH WATER							
0.35 %		HR-5, 50 LB SK (100005050)							
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
6	Displacement	Displacement	245.1	bbl	8.33			10	
Cement Left In Pipe		Amount	47 ft		Reason		Shoe Joint		
Comment									

2.0 Real-Time Job Summary

2.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	Comments
Event	1	Call Out	Call Out	10/25/2016	01:15:00	USER	
Event	2	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	10/25/2016	04:40:00	USER	ALL HES PRESENT
Event	3	Crew Leave Yard	Crew Leave Yard	10/25/2016	04:50:00	USER	
Event	4	Arrive at Location from Service Center	Arrive at Location from Service Center	10/25/2016	07:10:00	USER	RIG RUNNING CASING
Event	5	Assessment Of Location Safety Meeting	Assessment Of Location Safety Meeting	10/25/2016	07:30:00	USER	
Event	6	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	10/25/2016	08:30:00	USER	ALL HES PRESENT
Event	7	Rig-Up Completed	Rig-Up Completed	10/25/2016	09:35:15	USER	1-ELITE, 2-SILO, 1-660 BULK TRAILER, 2" LOTORQ, 2" PUMP IRON, 4" SUCTION HOSE
Event	8	Pre-Job Safety Meeting	Pre-Job Safety Meeting	10/25/2016	10:00:00	USER	ALL HES AND RIG CREW PRESENT
Event	9	Start Job	Start Job	10/25/2016	10:30:00	USER	TD-11146', TVD-5937', TP-11136', SJ-47', OH-8.5", CSG-5.5" 20# P110, SCSG-9.625" 36#, MUD-9.3PPG, PV-9, YP-7
Event	10	Start Job	DROP BOTTOM PLUG	10/25/2016	10:32:05	COM5	NOBLE LOADED AND VERIFIED PLUG AWAY
Event	11	Prime Pumps	Prime Pumps	10/25/2016	10:33:55	USER	FRESH WATER TO FILL LINES
Event	12	Test Lines	Test Lines	10/25/2016	10:40:15	COM5	ALL PRESSURE HELD ON LINES
Event	13	Pump Spacer 1	Pump Spacer 1	10/25/2016	10:53:50	COM5	40 BBLS TSIII W/ DUAL SURF B & MUSAL A, 11.5PPG, 3.78CF/SK, 23.8GAL/SK, 40 BBLS TSIII W/O 11.5PPG, 3.79CF/SK, 24.4GAL/SK
Event	14	Pump Lead Cement	Pump Lead Cement	10/25/2016	11:13:01	COM5	ELASTICEM W/O CBL 150 SKS, 13.2PPG, 1.57CF/SK, 7.53GAL/SK, 42 BBLS TOTAL
Event	15	Other	Other	10/25/2016	11:21:28	COM5	ELASTICEM W/CBL 495 SKS, 13.2PPG, 1.6CF/SK, 7.68GAL/SK, 141 BBLS TOTAL
Event	16	Pump Tail Cement	Pump Tail Cement	10/25/2016	11:40:32	COM5	ECONOCHEM 703SKS, 13.5PPG, 1.68CF/SK, 7.99GAL/SK 210.3 BBLS TOTAL
Event	17	Shutdown	Shutdown	10/25/2016	12:15:34	USER	

Event	18	Clean Lines	Clean Lines	10/25/2016	12:26:21	COM5	RIG BLEW LINES DOWN TO CATCH TANK, HES THEN CLEANED PUMPS AND LINES TO CATCH TANK
Event	19	Drop Top Plug	Drop Top Plug	10/25/2016	12:32:11	USER	PLUG LOADED BY J.DRAHOTA INTO CASING
Event	20	Pump Displacement	Pump Displacement	10/25/2016	12:32:51	COM5	FRESH WATER WITH 20 GAL'S MMCR
Event	21	Slow Rate	Slow Rate	10/25/2016	12:56:30	USER	SLOW RATE LAST 20 BBLS
Event	22	Bump Plug	Bump Plug	10/25/2016	13:00:01	COM5	PLUG BUMPED @ 1346 PSI
Event	23	Check Floats	Check Floats	10/25/2016	13:06:21	USER	CHECK FLOATS AT 1994 PSI, 3 BBLS BACK TO DISPLACEMENT TANK.
Event	24	End Job	End Job	10/25/2016	13:09:06	COM5	GOOD RETURNS THROUGH OUT JOB, NO SPACER TO SURFACE. APPROXIMATE TOP OF CEMENT 1790'.APPROXIMATE HEIGHT 9346'.
Event	25	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	10/25/2016	13:15:00	USER	ALL HES PRESENT
Event	26	Rig-Down Completed	Rig-Down Completed	10/25/2016	14:00:00	USER	
Event	27	Crew Leave Location	Crew Leave Location	10/25/2016	14:15:00	USER	THANK YOU FOR CHOOSING HALLIBURTON, ANDREW BRENNECKE AND CREW