

*The Road to Excellence Starts with Safety*

Sold To #: 300466	Ship To #: 3782389	Quote #: 0022413092	Sales Order #: 0904676394
Customer: ANADARKO PETROLEUM CORP-EBUS		Customer Rep: Travis	
Well Name: LEINWEBER		Well #: 36N-11HZ	API/UWI #: 05-123-44203-00
Field: WATTENBERG	City (SAP): IONE	County/Parish: WELD	State: COLORADO
Legal Description: NE NE-11-1N-67W-313FNL-801FEL			
Contractor: XTREME DRLG		Rig/Platform Name/Num: XTREME 22	
Job BOM: 7522 7522			
Well Type: HORIZONTAL GAS			
Sales Person: HALAMERICA\HX41066		Srvc Supervisor: Adam Covington	

**Job**

Formation Name			
Formation Depth (MD)	Top		Bottom
Form Type	BHST		
Job depth MD	6123ft	Job Depth TVD	
Water Depth	Wk Ht Above Floor		
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		J-55	0	516	0	0
Casing		7	6.276	26	LTC	J-55	0	6123	0	0
Open Hole Section			8.5				516	6110	0	5683

**Tools and Accessories**

Make	Size in	Qty	Make	Depth ft	Type	Size in	Qty	
HES	7				Top Plug	7	1	
Float Shoe	7			6081	Bottom Plug	7	1	
Float Collar	7				SSR plug set	7		HES
Insert Float	7				Plug Container	7	1	HES
Stage Tool	7				Centralizers	7		HES

**Fluid Data**

Stage/Plug #: 1										
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	
1	Tuned Spacer III	Tuned Spacer III	40	bbl	10.5	6.25		3		
	88.91 lbm/bbl	<b>BARITE, BULK (100003681)</b>								
	37.58 gal/bbl	<b>FRESH WATER</b>								
	0.70 gal/bbl	<b>DUAL SPACER SURFACTANT B, 5 GAL PAIL (100003665)</b>								

0.70 gal/bbl		<b>MUSOL A, 330 GAL TOTE - (790828)</b>								
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	ElastiCem	ELASTICEM (TM) SYSTEM	400	sack	13.2	1.57		6	7.53	
0.10 %		<b>SUPER CBL, 50 LB PAIL (100003668)</b>								
0.20 %		<b>HR-5, 50 LB SK (100005050)</b>								
7.53 Gal		<b>FRESH WATER</b>								
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	Displacement Fluid	Displacement Fluid	232	bbl	9.5			6		
<b>Cement Left In Pipe</b>		<b>Amount</b>	42 ft		<b>Reason</b>			<b>Shoe Joint</b>		
<b>Comment</b> Top of Cement is at 1,096. 10 bbls of spacer back to surface.										

## 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	3/1/2018	00:00:00	USER	CALLED OUT BY SERVICE COORDINATOR FOR O/L AT 0500
Event	2	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	3/1/2018	03:50:00	USER	HELD MEETING WITH ALL PERSONNEL IN CONVOY TO DISCUSS DIRECTIONS AND HAZARDS ASSOCIATED WITH DRIVING, ALL FIT TO DRIVE.
Event	3	Depart Shop for Location	Depart Shop for Location	3/1/2018	04:00:00	USER	JOURNEY MANAGEMENT PRIOR TO DEPARTURE
Event	4	Arrive At Loc	Arrive At Loc	3/1/2018	04:30:00	USER	UPON ARRIVAL MET WITH COMPANY MAN TO DISCUSS JOB DETAILS AND CALCULATIONS, PERFORMED HAZARD HUNT AND SITE ASSESSMENT.
Event	5	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	3/1/2018	05:30:00	USER	DISCUSSED RIGGING UP HAZARDS AND PROCEDURE ACCORDING TO HMS.
Event	6	Pre-Job Safety Meeting	Pre-Job Safety Meeting	3/1/2018	07:45:00	USER	Water test- PH-6, Chlor-0, Temp-65. Cement temp-70. HELD SAFETY MEETING WITH ALL JOB ASSOCIATED PERSONNEL TO DISCUSS JOB PROCEDURE, HAZARDS AND STOP WORK AUTHORITY.
Event	7	Start Job	Start Job	3/1/2018	08:17:19	COM4	FILL LINES WITH 3 BBLS OF FRESH WATER. 2 BPM, 205 PSI.
Event	8	Test Lines	Test Lines	3/1/2018	08:24:20	COM4	PERFORMED PRESSURE TEST TO 3500 PSI. AFTER WE HAD PERFORMED A 500 PSI KICKOUT TEST AND A 5TH GEAR STALL. HELD FOR A MINUTE.
Event	9	Pump Spacer 1	Pump Spacer 1	3/1/2018	08:33:40	COM4	PUMPED 40 BBLS OF 10.5#, 6.25 Y, 40.2 TUNED SPACER III AT 3 BPM. 250 PSI.

Event	10	Drop Bottom Plug	Drop Bottom Plug	3/1/2018	08:47:20	COM4	ADAM COVINGTON DROPPED A 7" NON-HALLIBURTON BOTTOM PLUG. CO. MAN AND DRILLER WITNESSED.
Event	11	Pump Lead Cement	Pump Lead Cement	3/1/2018	08:54:17	COM4	PUMPED 112 BBLS (400 SKS) 13.2#, 1.57 Y, 7.53 WR PRIMARY CEMENT AT 6 BPM 375 PSI.
Event	12	Shutdown	Shutdown	3/1/2018	09:15:08	COM4	SHUTDOWN TO DROP PLUG.
Event	13	Drop Top Plug	Drop Top Plug	3/1/2018	09:16:20	COM4	DROPPED NON HALLIBURTON 7" TOP PLUG. ADAM COVINGTON DROPPED, CO. MAN AND DRILLER WITNESSED.
Event	14	Pump Displacement	Pump Displacement	3/1/2018	09:18:59	COM4	PUMPED 10 BBLS OF FRESH WATER DISPLACEMENT. THEN TURNED, DISPLACEMENT OVER TO THE RIG.
Event	15	Shutdown	Shutdown	3/1/2018	09:22:03	COM4	
Event	16	Clean Lines	Clean Lines	3/1/2018	09:22:07	COM4	CLEANED LINES TO THE PIT.
Event	17	Pump Displacement	Pump Displacement	3/1/2018	09:23:54	USER	RIG STARTED DISPLACING 222 BBLS OF 9# OBM. 6 BPM. BUMPED PLUG AT 2 BPM, 1320 PSI (FCP), TOOK TO 1700 PSI (BUMP). THEN THEY TOOK THE PRESSURE UP TO 3100 PSI AND HELD FOR 15 MINUTES. BLED PRESSURE BACK AFTER CASING TEST TO GET 3 BBLS BACK TO THE PIT. TOP OF CEMENT IS AT 1,096 FT. GOT 10 BBLS OF SPACER TO SURFACE.
Event	18	End Job	End Job	3/1/2018	10:44:10	COM4	END JOB TOP OF CEMENT IS AT 1,096 FT.
Event	19	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	3/1/2018	11:00:00	USER	DISCUSSED RIGGING DOWN HAZARDS AND PROCEDURE ACCORDING TO HMS.
Event	20	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	3/1/2018	12:15:00	USER	HELD MEETING WITH ALL HES EMPLOYEES IN CONVOY TO DISCUSS DIRECTIONS AND HAZARDS ASSOCIATED WITH DRIVING, ALL FIT TO DRIVE.
Event	21	Depart Location for Shop	Depart Location for Shop	3/1/2018	12:30:00	USER	PRE JOURNEY MANAGEMENT PRIOR TO DEPARTURE.

Attachments

2.2 Job Chart

