



US Treatment Report

Customer: MALLARD EXPLORATION		Job #: JOB00130993	
Rep: Ray Phillips	Rig: Cartel 11	Job Date: Aug 02 @ 14:00	
Supervisor: MATTHEW ROSALES	Well: Hunt Fed 8-60 19-24-8	Time Requested: Aug 02 @ 14:00	
Job Type: US Primary	UWI: HUNT FED 8-60 19-24-8	Time Arrived: Aug 02 @ 23:00	
Casing-Surface	Surface: HUNT FED 8-60 19-24-8	Time Released: Aug 03 @ 03:00	

0 sk MAG S 13.3 + 1.00% MCA-1 + 0.20% MCDF-P

Yield: 1.44 ft³/sk = 0bbls Mix Water: 7.01 gal/sk = 0gal

BHCT (F)	91	BHST (F)	109	Surface Casing Size (in)	9.625
Surface Casing Grade	J55	Surface Casing Weight (lb/ft)	40	Collapse Csg Pressure (psi)	2570
Float Depth (ft)	2017	Funnel Vis (sec/qt)	TBD	Hole Size (in)	13.5
Max Csg Pressure (psi)	3950	Max Pressure (psi)	1200	Mud Density (lb/gal)	8.33
Mud Type	WBM	Plug Size (in)	9.625	Plug Type	Rig Supplie d
TMD (ft)	2051	TVD (ft)	1918		

Treatment Info: Sacks Used: 0 Sacks Not Used: 830

Preflush: 10bbls MAG Mark & 10bbls Fresh Water

Displace: 152.8bbls Fresh Water

Circulation Time:

Slurry Temp:	82	Bulk Sample:	Yes
Water Temp:	72	Water Sample:	Yes
Bulk Temp:	74	Slurry Sample:	Yes
Air Temp:	70	Air Pressure	29.6 8

Slurry Returns:	40	Plug Bumped:	Yes	Pump Out Lines:	Yes	Float Held:	Yes
Cement Class:		Type III		Humidity:	49	Precipitation:	0.25

Time	Pressure psi	Annular Pressure psi	Volume Per Stage bbls	Total Stage Volume bbls	Rate bbls/mi n	Treatment Detail
23:00	0.00					Arrive on Location - RIG PULLING DRILL PIPE
00:00	0.00					Safety Meeting
00:28	250.00			3	4	Fill Lines - FRESH WATER
00:29	2,700.00				.5	Start Pressure Test - HOLD ONE MINUTE CHECK FOR LEAKS
00:30	0.00					End Pressure Test
00:32	250.00			10	4	Pump Preflush - RED DYE
00:34	210.00			10	4	Pump Preflush - FRESH WATER
00:37	600.00			213	7.5	Pump Slurry - MAG S 13.3; 830 SKS, 85#SK 1.44 YIELD, 7.01GAL/SK, 13.3PPG, VERIFIED USING PRESSURIZED SCALES
01:11	0.00					Stop Pumping - SHUT DOWN TO DROP PLUG

01:13	0.00					Drop Plug
01:15	610.00			144.5	7.5	Displace - FRESH WATER DISPLACE
01:37	0.00				2	Decrease Rate - CEMENT TO SURFACE 40 BBLS CEMENT TO SURFACE
01:42	1,170.00					Bump Plug
01:43	0.00					Check Floats - FLOATS HELD 1BBL BACK TO TRUCK



Customer: MALLARD EXP

Date: August 3, 2022

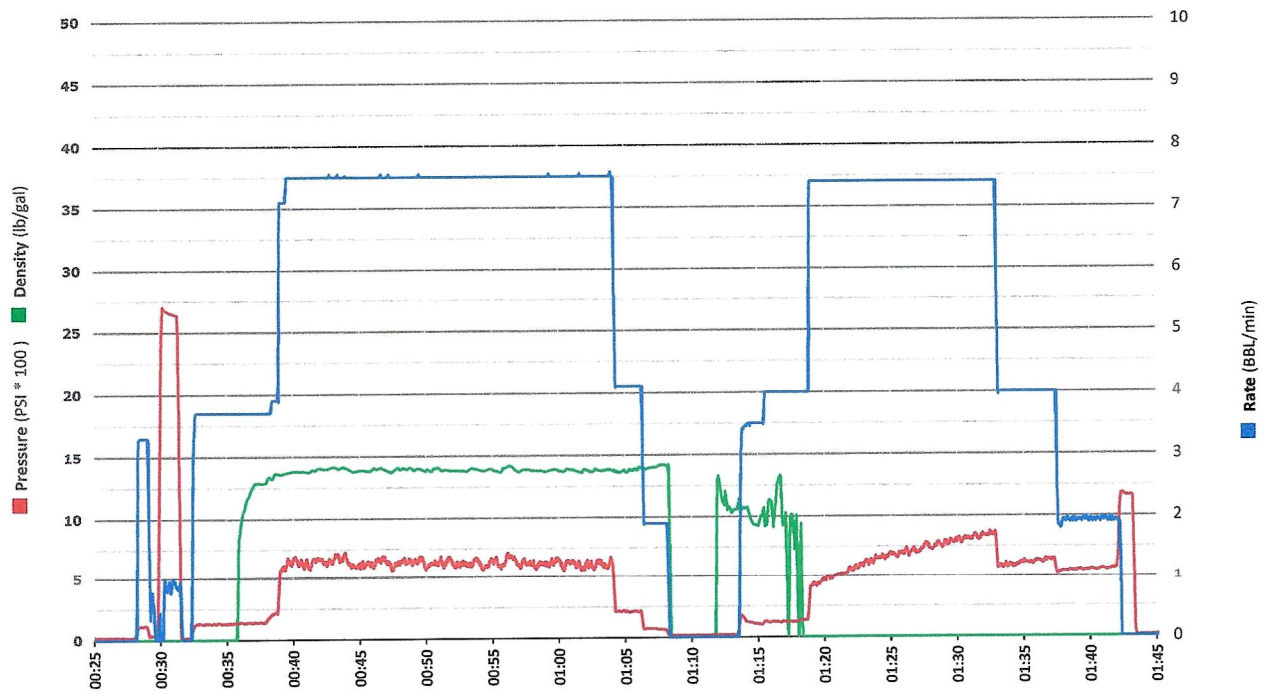
Ticket: 130993

Location: 05-123-46706

Well Name: HUNT FED 8-60 19-24-8

Job Type: SURFACE

Magnum Unit #: 1507





PUMP SCHEDULE

RATE (BPM)	EVENT	VOLUME (BBL)	DENSITY (LB/GAL)	# OF SACKS	SACK WEIGHT (LB/SK)	YIELD (FT3/SK)	MIX WATER (GAL/SK)
	Start Job			Max PSI 1200			
	Drop Plug						
3	Fill Fresh Water	5.0	8.3				
	Test Lines 2500psi	0.5	8.3				
8	MAG MARK	10.0	8.3				
8	FRESH WATER	10.0	8.3				
8	MAG S 13.3	213.0	13.3	830	85.00	1.44	7.01
	SHUTDOWN						
	DROP PLUG						
8	DISPLACE	152.8	8.3				
2.5	BUMP PLUG						
	CHECK FLOATS						
	TOL	SURF					
	TOT	NA		Bump Plug 500psi Over			
	Spacer to Surface	20.0					
	Cement to Surface	27.1					
TOTAL	TOTAL PIPE	SHOE JOINT			FLOAT COLLAR	BBL/FT	H2O REQ.
	2,055.00	3886.00			2016.00	0.0758	335
SHOE JOINT CAP.	3.00	USE MUD SCALES TO VERIFY WEIGHT					
PRESSURE TO LAND (PSI)		501			TOTAL FLUID PUMPED (BBL)		381
Collapse (psi)	3,090	Burst (psi)		5750		JOB#	130993
Client	MALLARD	Well Name		HUNT FED 8-60 19-24-8		Job Type	SURF
Water Temp (°F)	75	Water pH		7		Water Chlorie (mg/L)	100 PPM
Total Hardness (mg/L):	250						