



**Pumping
Service Report**

9188775

Client Name Great Western Oil & Gas Company	Well Name Dettler 33-24	Rig ECWS 47	Job Date October 21, 2014	Call Sheet 1049162
Client Representative Mr Luke Mahoney	Surface Well Location Sec 24:T6N:R67W	Down Hole Well Location	Job Type Cement Misc.	

Well Profile

Well Type: Oil

Maximum Treating Pressure (psi): ---

Predicted Bottom Hole Static Temperature (°F): --- @ ---

Bottom Hole Circulating Temperature (°F): --- @ ---

Bottom Hole Logged Temperature (°F): --- @ ---

Open Hole

Size (in)	Excess (%)	TMD From (ft)	TMD To (ft)	TVD From (ft)	TVD To (ft)
8.250	20.000	619.000	3,498.000	---	---

Casing

Size (in)	Weight (lb/ft)	Grade	Collapse Pressure (psi)	Internal Yield Pressure (psi)	Capacity (bbl)	I.D. (in)	O.D. (in)	Depth From (ft)	Depth To (ft)
8.625	24.000	J-55	1,370.0	2,950.0	39.42	8.097	9.625	0.0	619.0
4.500	11.600	J-55	4,960.0	5,350.0	54.32	4.000	5.000	0.0	3,495.0

Products

Stage 1

From Depth (ft):

To Depth (ft):

Acids/Blends/Fluids :

Tail: 730 Sacks of 0:1:0 Type III, Density = 14.2 lb/gal, Volume Pumped = 189.8 (bbl)
Water Temperature(°F) = 60 , Bulk Temperature(°F) = 60 , Slurry Temperature(°F) = 60
+ 0.3 % of CFL-3 (Preblend),
+ 0.6 % of CFR-2 (Preblend),
+ 0.6 % of LTR (Preblend)

Fluid & Cement Data

Expected Cement Top: ---

Wellbore Fluid

Fluid Type	Viscosity (cP)	Density (lbs/gal)	Yield Point (psi)	Temperature (°F)	Recorded@
Water	--	--	--	--	Aug 28, 2014 10:55



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Units & Personnel

Units

Truck Unit No.	Main Type	Sub Type	Tractor Unit No.	Main Type	Sub Type	Time On Location	Time Off Location
449095	TRAILER	Utility Trailer	201017	PICKUP	1 Ton	10/21/2014 12:15	10/21/2014 18:00
445052	TRAILER	SCM Twin	745052	TRACTOR	Tandem - Tractor	10/21/2014 12:15	10/21/2014 18:00
446153	TRAILER	Bulker	746153	TRACTOR	Tandem - Tractor	10/21/2014 12:15	10/21/2014 18:00
446167	TRAILER	Bulker	746167	TRACTOR	Tandem - Tractor	10/21/2014 12:15	10/21/2014 18:00

Crew and Bonuses

Employee	Start Shift	End Shift	Second Start Shift	Second End Shift
Johnson, Quintin	10/21/2014 12:00	10/21/2014 18:00		
Morris, Theodore	10/21/2014 12:00	10/21/2014 18:00		
Bailey, Steven	10/21/2014 12:00	10/21/2014 18:00		
Meisner, Jeremy	10/21/2014 12:00	10/21/2014 18:00		

Treatment Reports & Remarks



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Treatment Report

Event #	Event Time	Event Description	Fluid Type	Rate (bbl/min)	Tubular Pressure (psi)	Annular Pressure (psi)	Stage Volume (bbl)	Total Volume (bbl)
1	Oct 21, 2014 12:15	Arrive On Location Remarks: arrived on time		--	--	--	--	0.00
2	Oct 21, 2014 12:25	Tailgate Meeting Remarks: talked about spotting trucks		--	--	--	--	0.00
3	Oct 21, 2014 12:35	STEACS Briefing Remarks: held our JSA		--	--	--	--	0.00
4	Oct 21, 2014 12:55	Rig In Remarks: rigged in 3rd party water, bulk trucks and to the well		--	--	--	--	0.00
5	Oct 21, 2014 14:00	Sign-off on Safety Remarks: signed their and our JSA		--	--	--	--	0.00
6	Oct 21, 2014 14:01	Safety Meeting Remarks: talked about the job scope and safety concerns		--	--	--	--	0.00
7	Oct 21, 2014 15:01	Start - Fluid Remarks: filled lines for pressure test	Water	0.50	900.0	--	0.25	0.25
8	Oct 21, 2014 15:06	Pressure Test Remarks: pressured lines and they held	Water	0.00	3,800.0	--	0.00	0.25
9	Oct 21, 2014 15:10	Establish Circulation Remarks: got circulation	Water	4.00	400.0	--	10.00	10.25
10	Oct 21, 2014 15:15	Mix Cement Remarks: mixed slurry at 14.2	0:1:0 Type III	4.00	52.0	--	210.00	220.25
11	Oct 21, 2014 16:20	Drop Plug Remarks: drop their 4.5 plug		--	17.0	--	--	220.25
12	Oct 21, 2014 16:22	Pump Displacement Remarks: pumped till the bump	Water	4.00	500.0	--	54.20	274.45
13	Oct 21, 2014 16:36	Bump Plug Remarks: bump plug at 2500 as per tool hand		2.00	2,500.0	--	54.20	328.65
14	Oct 21, 2014 16:50	Stop Remarks: stop for wash up		--	--	--	--	328.65
15	Oct 21, 2014 17:00	Wash Remarks: washed the mix side and did run backs		2.00	150.0	--	20.00	348.65
16	Oct 21, 2014 17:15	Rig Out Remarks: rig out our iron, 3rd party water, and our bulk trucks		--	--	--	--	348.65
17	Oct 21, 2014 17:30	Pre-Departure Meeting Remarks: journey mangement		--	--	--	--	348.65
18	Oct 21, 2014 17:40	Job Complete Remarks: do walk around and check pins		--	--	--	--	348.65
19	Oct 21, 2014 17:50	Leave Location Remarks: leave		--	--	--	--	348.65



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Treatment Reports & Remarks

Did Float Hold: Yes

Fluid Returns : No

Type :

Volume (bbl) :

Temperature (°F) :

FDAS Functioning Correctly : Yes

Was the Program Followed As Per Design? : Yes

Material Transfer Sheet Number

Material Transfer Sheet Number

54651

54649



Client	Great Western Oil & Gas	Client Rep	Mr Luke Mahoney	Supervisor	Quintin Johnson
Ticket No.	9188775	Well Name	Detterer 33-24	Unit No.	445052
Location	Sec 24:T6N:R67W	Job Type	Miscellaneous Pumping	Service District	Ft Lupton CO
Comments	As per design			Job Date	10/21/2014

