



**Pumping
Service Report**
9190993

Client Name Great Western Oil & Gas Company	Well Name Christiansen #2	Job Date May 14, 2014	Call Sheet 1041975
Client Representative Bill Daughtry	Location Sec 34; T7N; R64W	Job Type Abandonment Plugs	Rig

Well Profile

Well Type: Oil			
Maximum Treating Pressure (psi):		220.00	@
Predicted Bottom Hole Static Temperature (°F):		200.00	@
Bottom Hole Circulating Temperature (°F):		--	@
Bottom Hole Logged Temperature (°F):		--	@
Open Hole	Size (in) 7.875	Excess (%) --	TMD From (ft) --
			TMD To (ft) --
			TVD From (ft) --
			TVD To (ft) --
Tubing			
Size (in)	Weight (lb/ft)	Grade	Collapse Pressure (psi)
2.875	6.500	J-55	7,680.000
			Capacity (bbl)
			41.450
			I.D. (in)
			2.441
			O.D. (in)
			3.668
			Depth From (ft)
			0.000
			Depth To (ft)
			7,162.000

Products

Plug 1	
From Depth (ft):	2450 7,181'
To Depth (ft):	7960 5,720'
Plug Type:	Abandonment
Acids/Blends/Fluids:	
Tail: 375 Sacks of 0-1-0 G, Density = 15.8 lb/gal, Volume Pumped = 76.8 (bb)	
Water Temperature(°F) = 55, Bulk Temperature(°F) = 55, Slurry Temperature(°F) = 70	
+ 0.5 % of CFR,	
+ 0.2 % of AS-3,	
+ 0.2 % of LTR	
Plug 2	
From Depth (ft):	9900 341'
To Depth (ft):	7960 0'
Plug Type:	Abandonment
Acids/Blends/Fluids:	
Plug: 100 Sacks of 0-1-0 Type III, Density = 14.2 lb/gal, Volume Pumped = 26 (bb)	
Water Temperature(°F) = 55, Bulk Temperature(°F) = 55, Slurry Temperature(°F) = 70	
+ 2 % of CaCl2 (Prenhydrate)	

Fluid & Cement Data

Expected Cement Top:	--				
Wellbore Fluid					
Fluid Type	Viscosity (cP)	Density (lbs/gal)	Yield Point (psi)	Temperature (°F)	Recorded@
Water	--	--	--	--	May 14, 2014 09:58



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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
449093	TRAILER	Utility Trailer	200868	PICKUP	3/4 Ton	05/14/2014 12:30	05/14/2014 20:25
445052	TRAILER	SCM Twin	745052	TRACTOR	Tandem - Tractor	05/14/2014 12:30	05/14/2014 20:25
448075	TRAILER	Bulker	748075	TRACTOR	Tandem - Tractor	05/14/2014 12:30	05/14/2014 20:25
746502	BODY JOB	Baby Bulker				05/14/2014 12:30	05/14/2014 20:25
200918	PICKUP	3/4 Ton				05/14/2014 12:30	05/14/2014 20:25
Crew and Bonuses							
Employee	Start Shift		End Shift		Second Start Shift		Second End Shift
Contreras, Bennie	05/14/2014	12:30	05/14/2014	20:25			
Cox, Brandon	05/14/2014	12:30	05/14/2014	20:25			
Coronado, Sebastian	05/14/2014	12:30	05/14/2014	20:25			
Palu, Cornelli	05/14/2014	12:30	05/14/2014	20:25			
Palu, Vladislav	05/14/2014	12:30	05/14/2014	20:25			
Leue, David	05/14/2014	12:30	05/14/2014	20:25			
Schroeder, Stephen	05/14/2014	12:30	05/14/2014	20:25			

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	May 14,2014 12:30	Arrive On Location Remarks: Arrived	---	---	---	---	---	0.00
2	May 14,2014 12:35	Tailgate Meeting Remarks: Talked about rig in and spotting trucks.	---	---	---	---	---	0.00
3	May 14,2014 13:00	Rig In Remarks: Rigged in water and cement lines to pump, and pun p to well.	---	---	---	---	---	0.00
4	May 14,2014 14:40	Safety Meeting Remarks: Muster, location safety equip., job scope, proper ppe, 911 caller, ambulance driver.	---	---	---	---	---	0.00
5	May 14,2014 14:55	Sign-off on Safety Remarks: Sign all JSAs	---	---	---	---	---	0.00
6	May 14,2014 15:00	Pressure Test Remarks: Pressure test to 3000 psi.	Water	---	3,000.0	---	---	0.00
7	May 14,2014 15:05	Mix Cement Remarks: Pumped 76.8 BBLs of cement @ 15.8	0-1-0 G	2.00	5.0	---	76.80	76.80
8	May 14,2014 15:51	Displace Fluid Remarks: Pumped 41 BBLs (per customer) of water from transfer tank per customers request.	Water	3.00	15.0	---	41.00	117.80
9	May 14,2014 16:11	Stop Remarks: Stopped bled back and rigged off.	---	---	---	---	---	117.80
10	May 14,2014 16:20	Wash Remarks: Washed mix tank and runbacks on triplexes.	Water	1.70	170.0	---	15.00	132.80
11	May 14,2014 19:53	Pressure Test Remarks: Pressure test to 2800 psi.	Water	---	2,800.0	---	---	0.00
12	May 14,2014 19:54	Mix Cement Remarks: Pumped 26 BBLs of cement @14.2 lb/gal	0:1:0 Type III	2.00	35.0	---	26.00	26.00
13	May 14,2014 19:30	Stop Remarks: Stopped	---	---	---	---	---	26.00
14	May 14,2014 19:35	Wash Remarks: Wash mix tank runback on triplexes.	Water	1.70	170.0	---	20.00	46.00
15	May 14,2014 20:00	Rig Out Remarks: Rig out iron.	---	---	---	---	---	46.00
16	May 14,2014 20:10	Job Complete Remarks: Job complete	---	---	---	---	---	46.00
17	May 14,2014 20:15	Pre-Departure Meeting Remarks: Journey management.	---	---	---	---	---	46.00
18	May 14,2014 20:25	Leave Location Remarks: Leave	---	---	---	---	---	46.00

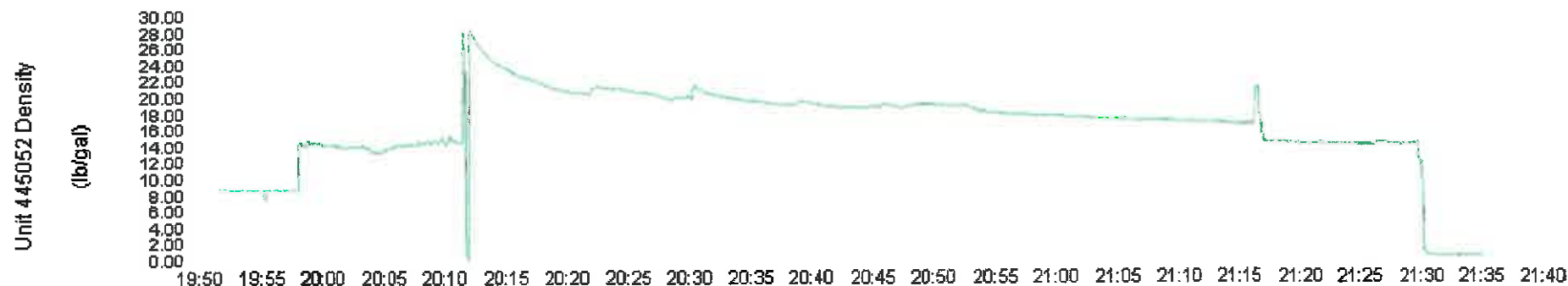
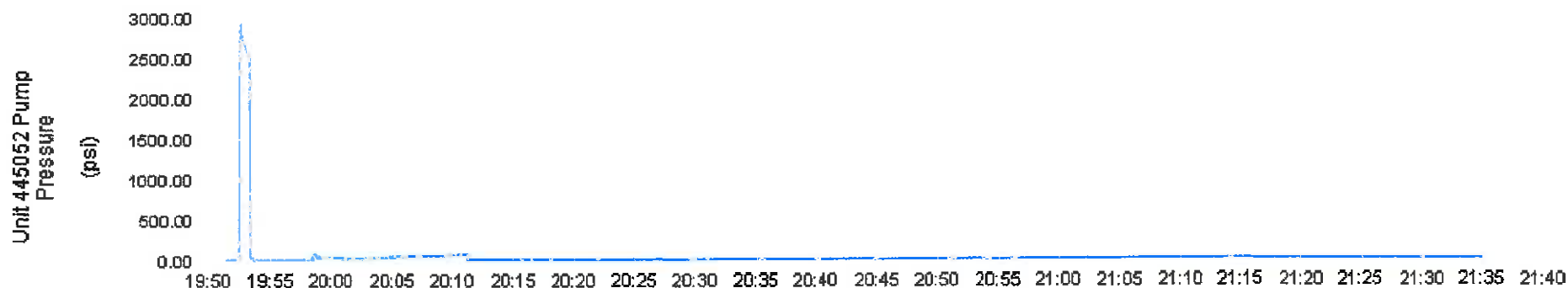
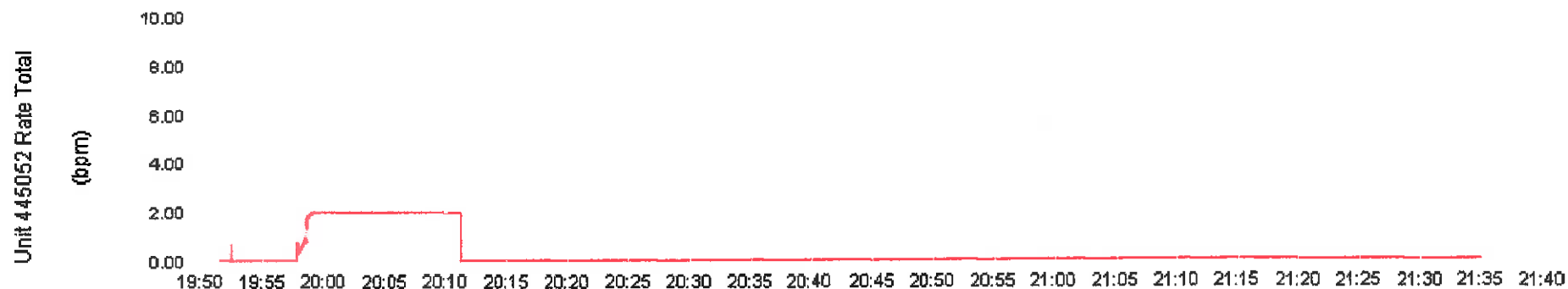


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Treatment Reports & Remarks	
Did Float Hold:	Not Applicable
Fluid Returns :	No
Type :	
Volume (bb) :	
Temperature (°F) :	
FDAS Functioning Correctly :	Yes
Was the Program Followed As Per Design? :	Yes
Material Transfer Sheet Number	
Material Transfer Sheet Number	46076
	46109



Client	Great Western Oil & Gas Co.	Client Rep	Mr. Bill Daughtry	Supervisor	Bennie Contreras
Ticket No.	9190993	Well Name	Christiansen #2	Unit No.	445052
Location	Sec. 34:T7N:R64W	Job Type	Abandonment Plugs	Service District	Fort Lupton
Comments	100 SKs 0-1-0 Type III @ 14.2 lb/gal			Job Date	05/14/2014





Client	Great Western Oil & Gas Co.	Client Rep	Mr. Bill Daughtry	Supervisor	Bennie Contreras
Ticket No.	9190993	Well Name	Christiansen #2	Unit No.	445052
Location	Sec.:34:T7N:R64W	Job Type	Abandonment Plugs	Service District	Fort Lupton
Comments	375 SKs 0-1-0 G @ 15.8 lb/gal .5% CFR, .2% AS-3, .2% LTR			Job Date	05/14/2014

