Sanjel

Pumping Service Report

9191964

Client Name	Well Name	Rig	Job Date	Call Sheet
Whiting Petroleum Corp.	Maddy # 2	Bayou Well Service 12	May 23,2014	1042254
Client Representative	**Surface Well Location**	**Down Hole Well Location**	**Job Type**	
Bryan Olmstead	Sec 31:T10N:R57W		Abandonment Plugs	

Well Profile

Well Type:	Oil		
Maximum Treating Pressure (psi):	---		
Predicted Bottom Hole Static Temperature (°F):	100.00	@	--
Bottom Hole Circulating Temperature (°F):	90.00	@	--
Bottom Hole Logged Temperature (°F):	---	@	--

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)
4.500	11.600	J-55	4,960.0	5,350.0	80.12	4.000	5.000	0.0	5,155.0
4.500	11.600	J-55	4,960.0	5,350.0	13.99	4.000	5.000	0.0	900.0

Tubing

Size (in)	Weight (lb/ft)	Grade	Collapse Pressure (psi)	Capacity (bbl)	I.D. (in)	O.D. (in)	Depth From (ft)	Depth To (ft)
2.375	4.700	J-55	8,100.000	19.930	1.995	2.910	0.000	5,155.000
2.375	4.700	J-55	8,100.000	3.480	1.995	2.910	0.000	899.000

Products

Plug 1

From Depth (ft): 5091
To Depth (ft): 5155
Plug Type : Abandonment
Acids/Blends/Fluids :
Plug: 60 Sacks of 0-1-0 G, Density = 15.8 lb/gal, Volume Pumped = 12.2 (bbl)

Plug 2

From Depth (ft): 899
To Depth (ft): 113
Plug Type : Abandonment
Acids/Blends/Fluids :
Plug: 60 Sacks of 0-1-0 G, Density = 15.8 lb/gal, Volume Pumped = 12.2 (bbl)

Fluid & Cement Data

Expected Cement Top: Depth (ft): 113

Wellbore Fluid

Fluid Type	Viscosity (cP)	Density (lbs/gal)	Yield Point (psi)	Temperature (°F)	Recorded@
Water	--	--	--	--	May 18, 2014 18:18

Sanjel

Pumping Service Report

9191964

Attachment & Tools

Down Hole Tools

Tool Type	Depth (ft)	Supplier
Cement Retainer	5,155.000	Third Party

Units & Personnel

Units

Truck Unit No.	Main Type	Sub Type	Tractor Unit No.	Main Type	Sub Type	Time On Location	Time Off Location
200851	PICKUP	3/4 Ton				05/23/2014 07:30	05/23/2014 13:30
740004	BODY JOB	C & A				05/23/2014 07:30	05/23/2014 13:30
446047	TRAILER	Bulker	746047	TRACTOR	Tandem - Tractor	05/23/2014 07:30	05/23/2014 13:30

Crew and Bonuses

Employee	Start Shift	End Shift	Second Start Shift	Second End Shift
Bell, Wesley	05/23/2014 07:30	05/23/2014 13:30		
Keeton, Derek	05/23/2014 07:30	05/23/2014 13:30		
Felton, Charles	05/23/2014 07:30	05/23/2014 13:30		
Waltman, Jared	05/23/2014 07:30	05/23/2014 13:30		

Treatment Reports & Remarks

Sanjel

Pumping Service Report

9191964

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 23,2014 07:30	Arrive On Location	---	--	--	--	--	0.00
2	May 23,2014 07:33	Tailgate Meeting	---	--	--	--	--	0.00
3	May 23,2014 07:38	Rig In	---	--	--	--	--	0.00
4	May 23,2014 08:00	Safety Meeting	---	--	--	--	--	0.00
5	May 23,2014 08:05	Sign-off on Safety	---	--	--	--	--	0.00
6	May 23,2014 08:10	JSA	---	--	--	--	--	0.00
	Remarks: 10 people in meeting, stay away from iron when pumping							
7	May 23,2014 08:27	Pressure Test Lines	Water	1.00	2,100.0	0.0	1.00	1.00
	Remarks: lines held							
8	May 23,2014 08:31	Injection Test	Water	3.00	1,000.0	0.0	5.00	6.00
9	May 23,2014 08:34	Jet Mix	0-1-0 G	3.00	1,000.0	0.0	6.00	12.00
	Remarks: mixed at 15.8ppg, yield:1.15, WR: 5							
10	May 23,2014 08:36	Stop	---	0.00	0.0	0.0	0.00	12.00
	Remarks: returns through surface casing, rig crew added a flow line to surface valve							
11	May 23,2014 08:47	Jet Mix	0-1-0 G	3.00	800.0	0.0	6.00	18.00
	Remarks: mixed remainder of cement.							
12	May 23,2014 08:51	Displace Fluid	Water	3.00	900.0	0.0	18.90	36.90
	Remarks: 18.9bbls leaves 1bbl on top of retainer, 5sks							
13	May 23,2014 09:14	Wash	Water	--	--	--	--	36.90
	Remarks: washed to rig tank							
14	May 23,2014 09:20	Pull Pipe	---	--	--	--	--	36.90
	Remarks: rig pulled all pipe out of hole to get ready for wireline							
15	May 23,2014 11:55	Pressure Test Lines	Water	0.30	2,000.0	0.0	1.00	1.00
	Remarks: lines held							
16	May 23,2014 12:00	Establish Circulation	Water	2.00	100.0	0.0	5.00	6.00
	Remarks: fresh water							
17	May 23,2014 12:03	Jet Mix	0-1-0 G	2.00	50.0	0.0	12.20	18.20
	Remarks: mixed at 15.8ppg, yield:1.15, WR:5							
18	May 23,2014 12:09	Displace Fluid	Water	0.00	0.0	0.0	0.50	18.70
	Remarks: displaced with boost pump only							
19	May 23,2014 12:10	Balance Plug	Water	0.00	0.0	0.0	0.00	18.70
20	May 23,2014 12:39	Squeeze	Water	0.50	190.0	0.0	5.50	24.20
	Remarks: squeezed down production casing valve							
21	May 23,2014 12:46	Shut In-Well	Water	0.00	170.0	0.0	0.00	24.20
	Remarks: shut in well, bleed lines down to truck							
22	May 23,2014 12:51	Wash	Water	--	--	--	--	24.20
	Remarks: washed to rig tank							
23	May 23,2014 13:00	Rig Out	---	0.00	0.0	0.0	0.00	24.20
24	May 23,2014 13:20	Pre-Departure Meeting	---	--	--	--	--	24.20
25	May 23,2014 13:30	Leave Location	---	--	--	--	--	24.20
26	May 23,2014 13:30	Job Complete	---	--	--	--	--	24.20

Sanjel

Pumping Service Report

9191964

Treatment Reports & Remarks

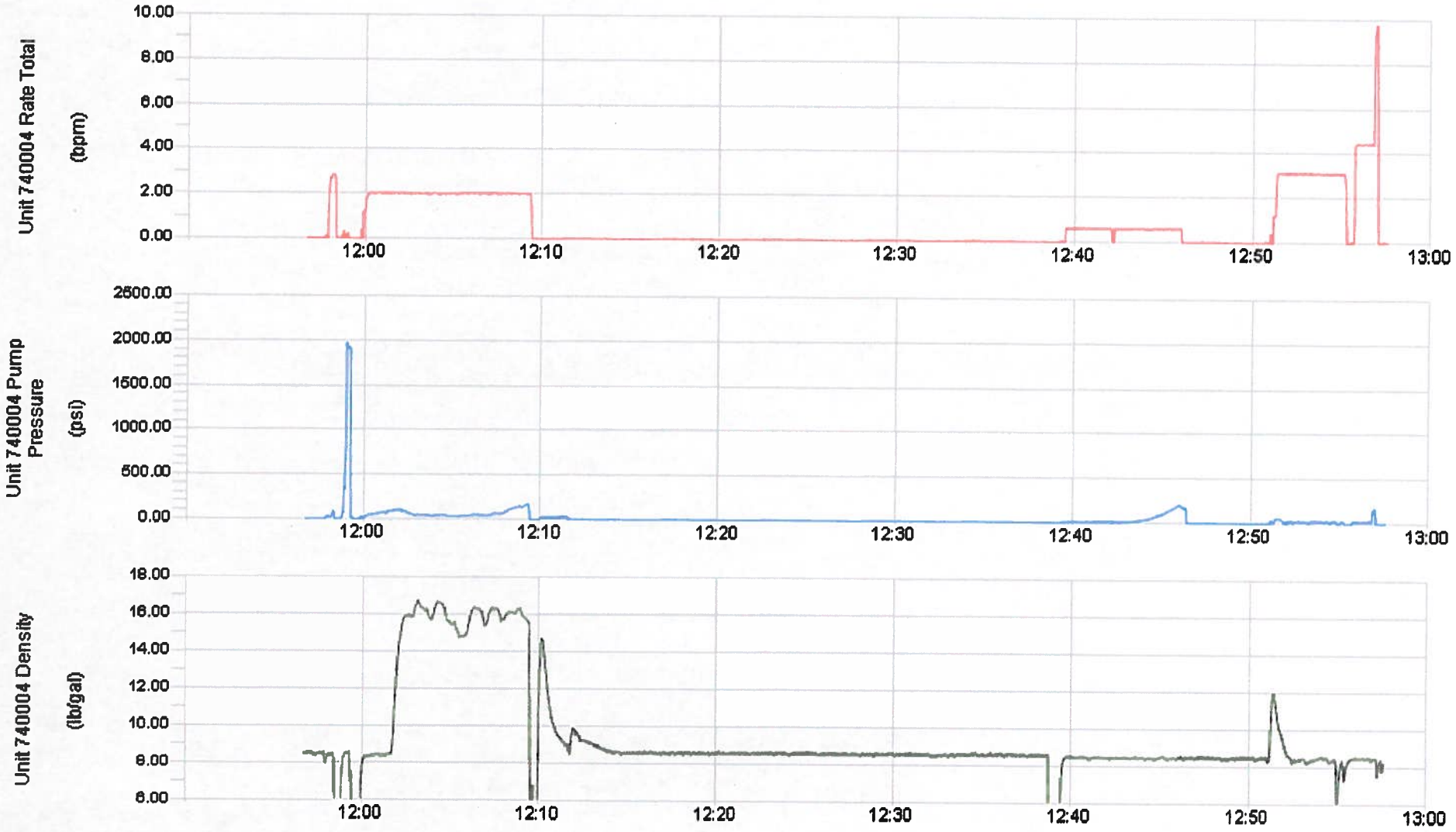
Did Float Hold:	Not Applicable
Fluid Returns :	Yes
Type :	Water
Volume (bbl) :	18
Temperature (°F) :	50
FDAS Functioning Correctly :	Yes
Was the Program Followed As Per Design? :	No

no program generated

Material Transfer Sheet Number

Material Transfer Sheet Number
46164

Client	Whiting Petroleum	Client Rep	Bryan Olmstead	Supervisor	Wesley Bell
Ticket No.	9191964	Well Name	Maddy 2	Unit No.	740004
Location	Sec 31 T10N R57W	Job Type	Retainer Squeeze	Service District	Fort Lupton
Comments	H2O 0:1:0 G H2O			Job Date	05/23/2014



Client	Whiting Petroleum	Client Rep	Bryan Olmstead	Supervisor	Wesley Bell
Ticket No.	9191964	Well Name	Maddy 2	Unit No.	740004
Location	Sec 31 T10N R57W	Job Type	Retainer Squeeze	Service District	Fort Lupton
Comments	H2O 0:1:0 G H2O			Job Date	05/23/2014