
NOBLE ENERGY INC E-BUSINESS

Moser Farms 4-1
Wattenberg
Weld County , Colorado

Recement Service

05-Dec-2012

Job Site Documents

Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 345242	Ship To #: 2967587	Quote #:	Sales Order #: 900050691
Customer: NOBLE ENERGY INC E-BUSINESS		Customer Rep: Swift, Carl	
Well Name: Moser Farms	Well #: 4-1	API/UWI #:	
Field: Wattenberg	City (SAP): HUDSON	County/Parish: Weld	State: Colorado
Lat: N 40.17 deg. OR N 40 deg. 10 min. 10.409 secs.		Long: W 104.661 deg. OR W -105 deg. 20 min. 20.26 secs.	
Contractor: Leed	Rig/Platform Name/Num: Leed 715		
Job Purpose: Recement Service			
Well Type: Development Well		Job Type: Recement Service	
Sales Person: AARON, WESLEY	Srvc Supervisor: PICKELL, CHRISTOPHER	MBU ID Emp #: 396838	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
HOLLOWAY, DUSTIN Craig	8	504032	MARKOVICH, STEVEN Michael	8	502964	PICKELL, CHRISTOPHER Lee	8	396838
WILEY, JAMES A	8	440080						

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10025030	18 mile	10248062C	18 mile	11562562	18 mile	11605597	18 mile
11667703C	18 mile						

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
12/5/12	8	6						
TOTAL			Total is the sum of each column separately					

Job

Job Times

Formation Name	Formation Depth (MD)	Top	Bottom	Called Out	Date	Time	Time Zone
Form Type			BHST	On Location	05 - Dec - 2012	07:45	MST
Job depth MD	4601. ft		Job Depth TVD	Job Started	05 - Dec - 2012	09:14	MST
Water Depth			Wk Ht Above Floor	Job Completed	05 - Dec - 2012	15:21	MST
Perforation Depth (MD)	From		To	Departed Loc	05 - Dec - 2012	16:00	MST

Well Data

Description	New / Used	Max pressure psig	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
9" Open Hole				9.				493.	4607.		
4 1/2" Production Casing	Unknown		4.5	4.	11.6				4607.		4607.
Surface Casing	Used		8.625	8.097	24.		J-55		493.		493.
1 1/4" tubing	Used		1.25	.671	3.02		P-105		4601.		4607.

Tools and Accessories

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug			
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container			
Stage Tool										Centralizers			

Miscellaneous Materials

Gelling Agt	Conc	Surfactant	Conc	Acid Type	Qty	Conc %
Treatment Fld	Conc	Inhibitor	Conc	Sand Type	Size	Qty

Fluid Data

Stage/Plug #: 1

Cementing Job Log

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Well Name: Moser Farms	Well #: 4-1	API/UWI #:	
Field: Wattenberg	City (SAP): HUDSON	County/Parish: Weld	State: Colorado
Legal Description:			
Lat: N 40.17 deg. OR N 40 deg. 10 min. 10.409 secs.		Long: W 104.661 deg. OR W -105 deg. 20 min. 20.26 secs.	
Contractor: Leed		Rig/Platform Name/Num: Leed 715	
Job Purpose: Recement Service			Ticket Amount:
Well Type: Development Well		Job Type: Recement Service	
Sales Person: AARON, WESLEY		Srvc Supervisor: PICKELL, CHRISTOPHER	MBU ID Emp #: 396838

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Start Job	12/05/2012 09:14							
Test Lines	12/05/2012 09:16		1	1		3500. 0		PRESSURE TEST LINES TO 3500 PSI. CHECK FOR VISIBLE LEAKS AND PRESSURE LOSS
Injection Test	12/05/2012 09:21		1.2	8	9	1600. 0		PUMP 8 BBL OF WATER AHEAD TO ESTABLISH CIRCULATION AT GET AN INJECTION TEST
Pump Lead Cement	12/05/2012 09:28		1.3	66	75	1650. 0		PUMP FRACC CEMENT 250 SKS 13.5 PPG 1.48 CUFT/SK 7.07 GAL/SK MIXED WITH RIG WATER
Pump Displacement	12/05/2012 10:23		1.3	4	79	1675. 0		PUMP DISPLACEMENT USING RIG WATER
Shutdown	12/05/2012 10:27							SHUTDOWN FOR RIG TO POOH OF HOLE. THEN CHECK NIPPLE ON BOTTOM OF TUBING AS A PRECAUTION. THEN RUN BACK IN THE HOLE TO 845 FT.
Circulate Well	12/05/2012 13:51		1.6	15	94	300.0		RIG WAS STUCK AT 545 FT. WE CIRCULATED 15 BBL IN AN ATTEMPT TO CIRCULATE OUT WHATEVER THEY WERE STUCK ON

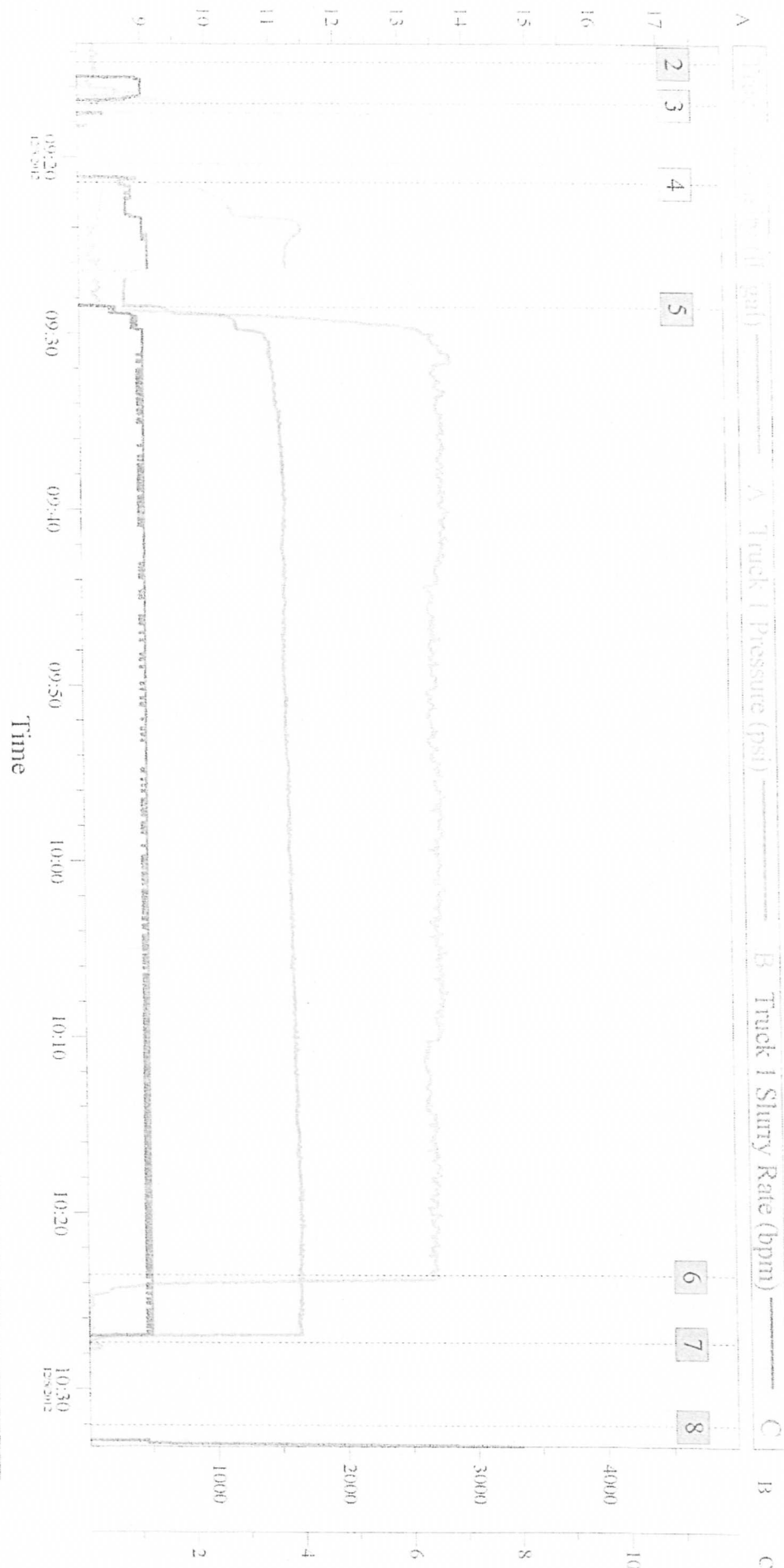
Cementing Job Log

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Shutdown	12/05/2012 14:04							RIG BROKE THROUGH WHAT THEY WERE STUCK ON BY ROTATING THE PIPE
Pump Spacer 2	12/05/2012 14:43		2	2.5	96.5	900.0		PUMP WATER TO ESTABLISH CIRCULATION AND GET AN INJECTION RATE
Pump Tail Cement	12/05/2012 14:50		2	59	155.5	1550.0		PUMP PREMIUM G CEMENT 300 SKS 15.8 PPG 1.15 CUFT/SK 5 GAL/SK MIXED WITH RIG WATER
Shutdown	12/05/2012 15:06							SHUTDOWN AFTER GETTING CEMENT TO SURFACE
End Job	12/05/2012 15:21							

Cementing Job Summary

Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft ³ /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	13.5 FracCem	FRACCEM (TM) SYSTEM (452963)	250.0	sacks	13.5	1.48	7.07		7.07
	5 lbm	ENHANCER 923, BULK (101894003)							
	0.2 %	ECONOLITE (100001580)							
	3 lbm	SILICALITE - COMPACTED, 50 LB SK (100012223)							
	0.2 %	FE-2 (100001615)							
	0.2 %	HALAD(R)-344, 50 LB (100003670)							
	7.07 Gal	FRESH WATER							
2	15.8# Cement	CMT - PREMIUM - CLASS G, 94 LB SK (100003685)	300.0	sacks	15.8	1.15	4.99		4.99
	94 lbm	CMT - PREMIUM - CLASS G REG OR TYPE V, BULK (100003685)							
	4.989 Gal	FRESH WATER							
Calculated Values			Pressures			Volumes			
Displacement	4 BBL	Shut In: Instant		Lost Returns	0 BBL	Cement Slurry	126 BBL	Pad	
Top Of Cement	0 FT	5 Min		Cement Returns	8 BBL	Actual Displacement	4 BBL	Treatment	
Frac Gradient		15 Min		Spacers	10 BBL	Load and Breakdown		Total Job	
Rates									
Circulating		Mixing	1.5	Displacement	1.5	Avg. Job			1.5
Cement Left In Pipe	Amount	0 ft	Reason	Shoe Joint					
Frac Ring # 1 @	ID	Frac ring # 2 @	ID	Frac Ring # 3 @	ID	Frac Ring # 4 @	ID		
The Information Stated Herein Is Correct				Customer Representative Signature					

MOSER FARMS 4-1
NOBLE ENERGY



Global Event Log

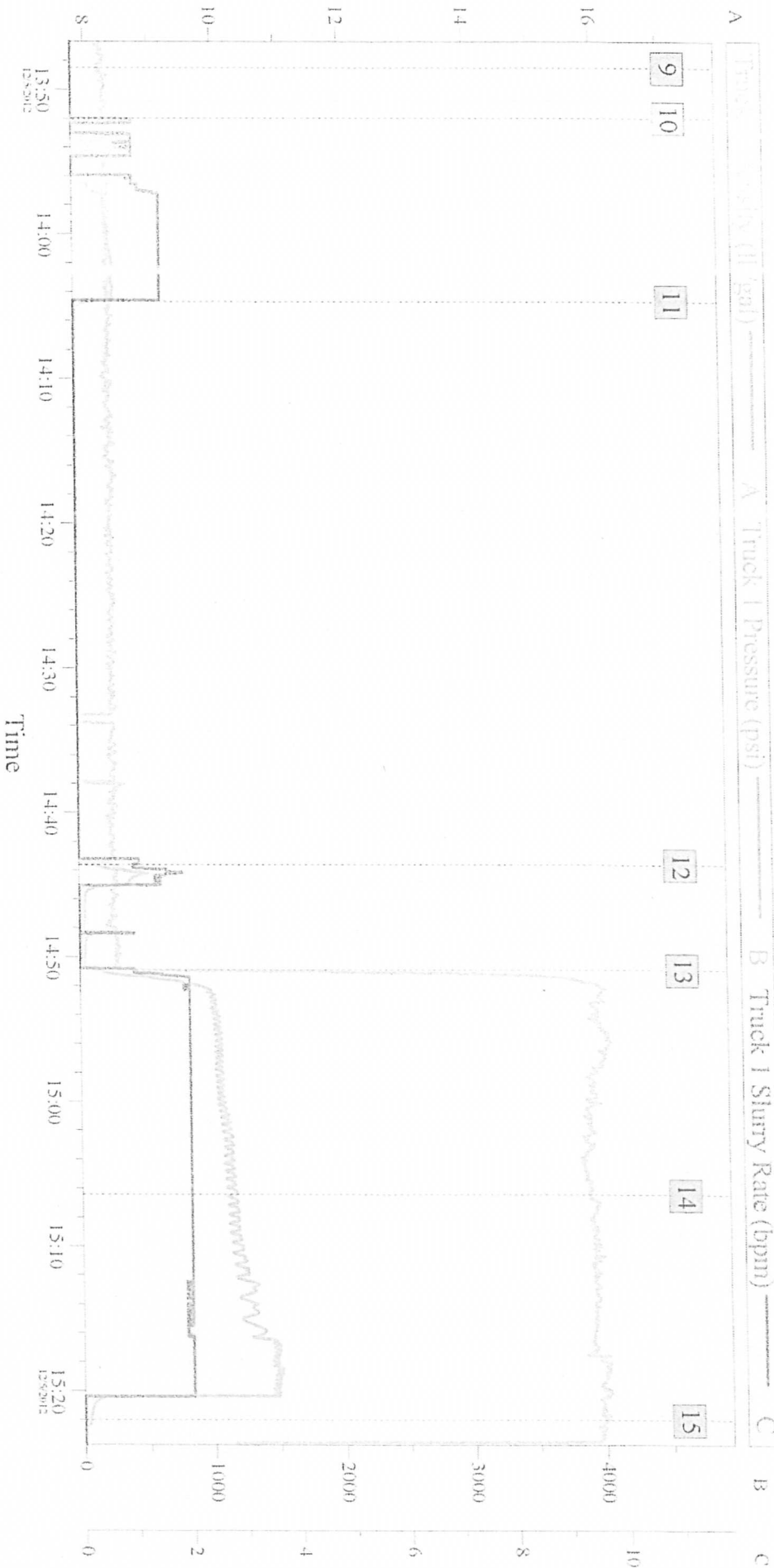
Intersection	TIP	Intersection	TIP	Intersection	TIP
2 Start Job	09:14:34	3 Test Lines	09:16:57	4 Pump Water	09:21:26
5 Pump Fraceem 13.5#	09:28:30	6 Pump Displacement	10:23:32	7 Shutdown	10:27:22
8 Pause	10:32:03				

Customer: NOBLE ENERGY
 Well Description: MOSER FARMS
 SERVICE SUPERVISOR: CHRISTOPHER PICKELL

Job Date: 05-Dec-2012
 UWI: SERVICE OPERATOR JAMES WILLY

Sales Order #: 900050691

MOSER FARMS 4-1
NOBLE ENERGY



Global Event Log

Time	Event	Well	Time	Event	Well	Time	Event	Well
13:48:29	Resume	10	13:51:58	Shutdown	11	14:04:39	TIP	134.5
14:43:38	Pump Water	13	14:50:55	Shutdown	14	15:06:27	TIP	1142
15:21:59	End Job							

Customer:	NOBLE ENERGY	Job Date:	05-Dec-2012	Sales Order #:	900050691
Well Description:	MOSER FARMS	UVI:			
Service Supervisor:	CHRISTOPHER PICKETT	Service Operator:	JAMES WILLEY		

OptiCem v6.4.10
05-Dec-12 15:28