



Service Ticket

9198212

Field Estimate

Client Name Noble Energy Inc.		Well Name Five Rivers K16-30D		Surface Well Location NE/NE Sec E 46 T4N R66W		Job Date September 12, 2014	
		Job Type Cement Misc.		Down Hole Location		Service Point Fort Lupton ✓	
Address P.O. Box 729		Client Representative Mr. John Hull		State CO		Call Sheet 1046954	
City Ardmore		Drilling Company Lead		County Weld		Pricing Area Area U	
State OK		Postal Code 73402		Rig No. 714		AFEP#	
District	Service, Equipment & Material Type			Disc	Code	Quantity/Unit	
59	Travel Charge *			56	1380	60 mi	
59	Service Charge 0 to 2000 ft 1150 *			56	1150	1	
59	Twin Pumping 1150 *			56	1150	1	
59	Handling Service Charge			56	1480	200	
59	Bulk Delivery / Return			56	1484	9.4	
59	SAM Unit *			56	1497	1	
59	OWG			56	3000	100	
59	Sugar			56	1492	1	
59	EnviroBag *			56	3262	5	
59	DF-3, Anti-foamer			-	1493	1	
59	Environmental Surcharge *			-	2992	2	
59	Fuel Surcharge			-			
* Not Subject to Discount 56.1. FOR OFFICE USE ONLY				Field Estimate			
BU: US Domestic / Accounts Payable				FOR OFFICE USE ONLY			
This Space Reserved for Client Coding Stamp				FOR OFFICE USE ONLY			
Comments: Job went according to prog and customer's request. Job went good.				FOR OFFICE USE ONLY			
This service ticket is not an invoice. The signature confirms that it is this service ticket.				FOR OFFICE USE ONLY			

FIVE RIVERS
K16-30 D
Pending
930.15/0017

SEP 23 2014

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**Pumping
Service Report**

9198212

Client Name Noble Energy Inc.	Well Name Five Rivers K16-30D	Rig Lead 714	Job Date September 12, 2014	Call Sheet 1046954
Client Representative Mr. John Hull	Surface Well Location NE NE Sec 16:T4N:R66W	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)
8.500	—	—	—	—	—

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	38.40	8.097	9.625	0.0	603.0
4.500	11.600	J-55	4,960.0	5,350.0	120.22	4.000	5.000	0.0	7,735.0

Tubing

Size (in)	Weight (lb/ft)	Grade	Collapse Pressure (psi)	Capacity (bbl)	I.D. (in)	O.D. (in)	Depth From (ft)	Depth To (ft)
1.660	2.330	J-55	—	2.130	—	—	0.000	1,150.000

Products

Plug 1

From Depth (ft): 1150
To Depth (ft): 830
Plug Type : Well Stability
Acids/Blends/Fluids :
Tail: 100 Sacks of 0-1-0 G, Density = 15.8 lb/gal, Volume Pumped = 20.4 (bbl)
Water Temperature(°F) = 60 , Bulk Temperature(°F) = 65 , Slurry Temperature(°F) = 75

Plug 2

From Depth (ft):
To Depth (ft):
Plug Type : Well Stability
Acids/Blends/Fluids :

Fluid & Cement Data

Expected Cement Top: —					
Wellbore Fluid					
Fluid Type	Viscosity (cP)	Density (lbs/gal)	Yield Point (psi)	Temperature (°F)	Recorded@
Water	—	8.400	—	—	Sep 11, 2014 16:34

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Units & Personnel								
Units								
<u>Truck Unit No.</u>	<u>Main Type</u>	<u>Sub Type</u>	<u>Tractor Unit No.</u>	<u>Main Type</u>	<u>Sub Type</u>	<u>Time On Location</u>	<u>Time Off Location</u>	
201173	PICKUP	1 Ton				09/12/2014 10:00	09/12/2014 13:00	
445051	TRAILER	SCM Twin	745051	TRACTOR	Tandem - Tractor	09/12/2014 10:00	09/12/2014 13:00	
446145	TRAILER	Bulker	746145	TRACTOR	Tandem - Tractor	09/12/2014 10:00	09/12/2014 13:00	
Crew and Bonuses								
<u>Employee</u>	<u>Start Shift</u>	<u>End Shift</u>		<u>Second Start Shift</u>	<u>Second End Shift</u>			
Klosterman, Austin	09/12/2014 10:00	09/12/2014 13:00						
Young, Craig	09/12/2014 10:00	09/12/2014 13:00						
Hansen, Ted	09/12/2014 10:00	09/12/2014 13:00						
Peterson, Ryan	09/12/2014 10:00	09/12/2014 13:00						
Treatment Reports & Remarks								
Treatment Report								
<u>Event #</u>	<u>Event Time</u>	<u>Event Description</u>	<u>Fluid Type</u>	<u>Rate</u> (bbl/min)	<u>Tubular Pressure</u> (psi)	<u>Annular Pressure</u> (psi)	<u>Stage Volume</u> (bbl)	<u>Total Volume</u> (bbl)
1	Sep 12, 2014 10:00	Arrive On Location	—	0.00	0.0	0.0	0.00	0.00
2	Sep 12, 2014 10:10	Tailgate Meeting	—	0.00	0.0	0.0	0.00	0.00
3	Sep 12, 2014 10:15	Rig In	—	0.00	0.0	0.0	0.00	0.00
4	Sep 12, 2014 11:00	Safety Meeting	—	0.00	0.0	0.0	0.00	0.00
5	Sep 12, 2014 11:10	Sign-off on Safety	—	0.00	0.0	0.0	0.00	0.00
6	Sep 12, 2014 11:23	Establish Circulation	Water	1.85	1,000.0	0.0	1.00	1.00
Remarks: Filling lines.								
7	Sep 12, 2014 11:24	Pressure Test Lines	Water	0.00	2,450.0	0.0	0.00	1.00
8	Sep 12, 2014 11:26	Establish Circulation	Water	1.50	800.0	0.0	8.00	9.00
9	Sep 12, 2014 11:30	Pump	0-1-0 G	1.50	800.0	0.0	20.40	29.40
Remarks: Mix up and pump 100 sacks @15.8#, Yield 1.14, WR 4.97								
10	Sep 12, 2014 11:50	Displace Fluid	Water	1.00	500.0	0.0	1.00	30.40
11	Sep 12, 2014 12:00	Rig Out	—	0.00	0.0	0.0	0.00	0.00
12	Sep 12, 2014 12:45	Job Complete	—	0.00	0.0	0.0	0.00	0.00
13	Sep 12, 2014 12:55	Pre-Departure Meeting	—	0.00	0.0	0.0	0.00	0.00
14	Sep 12, 2014 13:00	Leave Location	—	0.00	0.0	0.0	0.00	0.00
Did Float Hold:		Not Applicable						
Fluid Returns :		Not Expected						
Type :								
Volume (bbl) :								
Temperature (°F) :		—						
FDAS Functioning Correctly :		Yes						
Was the Program Followed As Per Design? :		Yes						
Material Transfer Sheet Number								
<u>Material Transfer Sheet Number</u>								
46387								

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Client	Noble	Client Rep	John Hull	Supervisor	A Klosterman
Ticket No.	9198212	Well Name	Five Rivers K16-30D	Unit No.	745051
Location	Sec16:T4N:R66W	Job Type	Abandonment Plugs	Service District	505
Comments	Mix up and pump 100 sacks @15.8#	Job Date	09/12/2014		

