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REF. INVOICE # 11478

LOCATION 392157

FOREMAN Mike Rasch

TREATMENT REPORT

DATE <u>4-22-12</u>	WELL NAME <u>Raygo A14-671 HN</u>	SECTION <u>14</u>	TWP <u>6N</u>	RGE <u>66</u>	COUNTY <u>WELLS</u>	FORMATION
CHARGE TO <u>Noble</u>			OWNER			
MAILING ADDRESS			OPERATOR <u>Noble</u>			
CITY			CONTRACTOR <u>H+P 223</u>			
STATE ZIP CODE			DISTANCE TO LOCATION			
TIME ARRIVED ON LOCATION <u>3:30 PM</u>			TIME LEFT LOCATION <u>9:30 PM</u>			

WELL DATA		PRESSURE LIMITATIONS	
HOLE SIZE <u>13 3/4</u>	TUBING SIZE	SURFACE PIPE ANNULUS LONG	THEORETICAL
TOTAL DEPTH <u>893</u>	TUBING DEPTH	STRING	INSTRUCTED
<u>P370</u> <u>842.09</u>	TUBING WEIGHT	TUBING	
CASING SIZE <u>9 5/8</u>	TUBING CONDITION	TYPE OF TREATMENT	
CASING DEPTH <u>888</u>		TREATMENT RATE	
CASING WEIGHT <u>24 3/4</u>	PACKER DEPTH	<input checked="" type="checkbox"/> SURFACE PIPE	BREAKDOWN BPM
CASING CONDITION <u>Good</u>		<input type="checkbox"/> PRODUCTION CASING	INITIAL BPM
		<input type="checkbox"/> SQUEEZE CEMENT	FINAL BPM
		<input type="checkbox"/> ACID BREAKDOWN	MINIMUM BPM
		<input type="checkbox"/> ACID STIMULATION	MAXIMUM BPM
		<input type="checkbox"/> ACID SPOTTING	AVERAGE BPM
		<input type="checkbox"/> MISC PUMP	
		<input type="checkbox"/> OTHER	
PRESSURE SUMMARY		HYD HHP = RATE X PRESSURE X 40.8	
BREAKDOWN or CIRCULATING psi	AVERAGE psi		
FINAL DISPLACEMENT psi	ISIP psi		
ANNULUS psi	5 MIN SIP psi		
MAXIMUM psi	15 MIN SIP psi		
MINIMUM psi			

INSTRUCTIONS PRIOR TO JOB Rig up, Sathymeddy PSI TEST 500, Circ 60 BBLs H2O / KCL mix 2% 10 Dye
mix Pump 481 SKs Cement (30% Excess) at 4:12 at 15-2, or until 1 Compymen
Stops us Release Pluc Displace 65.1 BBLs H2O Pump Plug 700 PSI over 1st unit Couple
min Decks PSI, Wash up
Arrived 600 SKs Cement, 1094 KCL, 1602 Dye

JOB SUMMARY
DESCRIPTION OF JOB EVENTS Sathymeddy 7:10 PM Circ 7:18 PM Cement Start 7:33 PM
Cement stop 8:00 PM Drop Plug 8:08 PM Displace 8:08 PM
10 BBLs at 5-5 BBLs/m 8:21 PM 260 PSI USE 10 % Excess
20 BBLs at 5-5 BBLs/m 8:23 PM 290 PSI USE 407 SKs Cement
30 BBLs at 5-5 BBLs/m 8:25 PM 330 PSI Slurry 92.05
40 BBLs at 5-5 BBLs/m 8:27 PM 390 PSI
50 BBLs at 5-5 BBLs/m 8:29 PM 490 PSI
60 BBLs at 3-0 BBLs/m 8:31 PM 440 PSI
70 BBLs at 1-0 BBLs/m 8:34 PM 540 PSI
80 BBLs at 1-0 BBLs/m 8:36 PM 480 PSI
Flow Coker held

Left with 193 SKs Cement 4 qts KCL + Dye BBLs Back to P.T
(12)

Tim Sathymeddy AUTHORIZATION TO PROCEED 4/55 TITLE 4-22-12 DATE

Customers hereby acknowledges and specifically agrees to the terms and conditions on this work order, including, without limitation, the provisions on the reverse side hereof which include the release and indemnity.