



Service Order for i-District Job 954483

Customer Name: NIGHTHAWK PRODUCTION LLC	Person Taking Call:	Location: Grand Junction, CO WS	Order Date: 20-Mar-13 16:12	Job Number: 954483		
Service Order Number:	Service Line: Cementing	Supervisor:	Legal Location:			
Well Name and Number: BIG SKY 4-11, 4-11	Pad/Platform:	Field: WILDCAT	County: Lincoln	State/Prov: CO		
Well Master Number: 0831452276	API/UWI: 05073065200000	Rig Name:	Well Age:	Sales Engineer:		
Job Type: Cementing - 8 5/8" Surface Casing	Time Well Ready:	Deviation:	Hole Size: 11 in	Well MD: 300 ft		
Well TVD: 300 ft	BHP:	BHST: 83.6 °F	BHCT: 80 °F	Treat Down: None		
Packer Type:	Packer Depth:	Well Head Connection:	HHP on Location: 245 hhp	Max Allowed Pressure:		
Max Allowed Ann Pressure:		Job Stage Description:	FTL Ticket/Quote Number : GAIO-00082			
Expected on Location: 11-Apr-13 12:30	Ready to Pump:	Job Start Date: 11-Apr-13 12:30	Job End Date: 11-Apr-13 20:30			
Leave for Job: 11-Apr-13 12:30		Arrive from Job: 11-Apr-13 20:30				
Casing/Tubing			Service Instructions: Casing Cementing KSC v1, 4/10 08:28			
String Type	Depth	Size			Weight	
Casing	300 ft	8.625 in			24 lb/ft	
Tubing	0 ft	0 in			0 lb/ft	
Perforations						
Top	Bottom	SPP			No of Shots	Formation Name
Total Interval: 0				Diameter:		
Coiled Tubing						
Size	Thickness	Length	String ID	Root ID		
Client Contact						
Name	Voice	Fax	Email	Title	Company	Notes
Chuck Wilson	720-344-2155		chuckwilson@nighthawkenergy.com			
Notes:						
Directions:						

Materials				
Name	Code	Description	Quantity	Density
14.0# Class G		MIN TT 2:18	18.85 bbl	14.00 lb/gal

Fluid Systems:

14.0# Class G				
MIN TT 2:18				
Sacks Of:	Cement	Total Blend/Cem:	6,580.00	lb
Sack Weight:	94.00 lb	Dry Blend Code:		
Yield:	1.54 ft³/sk	Final Fluid Density:	14.00	lb/gal
Mix Water:	7.91 gal/sk	Base Fluid Den:		
Mix Fluid:	7.91 gal/sk	Volume:		
Mix Water Den:	8.33 lb/gal	Base Fluid Vol:		
Sacks Blend/Cem:	70.00 sks	Acid Volume:		
Total Mix Water:	2.10 m³	Acid Conc:		
Total Mix Fluid:	2.10 m³			
				Load out Excess
Code	Conc	Design	Total by design	Load out with excess
D907	94.000 lb/sk	WTSK	6,580.00 lb	6,580.00 lb
D079	1.000 %	BWOB	65.80 lb	65.80 lb
D046	0.200 %	BWOB	13.16 lb	13.16 lb
D028	0.250 lb/sk	WTSK	17.50 lb	17.50 lb

Laboratory Cement Test Report 14.0Tail Slurry FB 1 @ 80 BHCT

Fluid No : GCO 13C119001	Client : Nighthawk	Location / Rig :	Signatures
Date : Apr-10-2013	Well Name : Big Sky 4-11	Field : Wildcat	Joseph Crisp

Job Type	Surface	Depth	300.0 ft	TVD	300.0 ft
BHST	84 degF	BHCT	80 degF	BHP	220 psi
Starting Temp.	80 degF	Time to Temp.	00:03 hr:mn	Heating Rate	-0.00 degF/min
Starting Pressure	85 psi	Time to Pressure	00:03 hr:mn	Schedule	9.2-4

Composition

Slurry Density	14.00 lb/gal	Yield	1.54 ft ³ /sk	Mix Fluid	7.915 gal/sk
Solid Vol. Fraction	31.2 %	Porosity	68.8 %	Slurry type	Conventional

Code	Concentration	Sack Reference	Component	Blend Density	Lot Number
G		94 lb of BLEND	Blend	199.77 lb/ft ³	774821
Fresh water	7.915 gal/sk		Base Fluid		

D079	1.000 %BWOB	Extender	44222112A
D046	0.000 %BWOC	Antifoam	TU3B0600A0
D029	0.280 lb/sk	Lost circ	2010147

Rheology

Temperature	80 degF			80 degF		
(rpm)	Up (deg)	Down (deg)	Average (deg)	Up (deg)	Down (deg)	Average (deg)
300	54.0	54.0	54.0	56.0	56.0	56.0
200	49.0	49.0	49.0	49.0	51.0	50.0
100	45.0	44.0	45.0	42.0	46.0	44.0
60	44.0	40.0	42.0	39.0	44.0	41.5
30	41.0	38.0	39.5	38.0	42.0	40.0
6	33.0	36.0	34.5	26.0	31.0	28.5
3	27.0	24.0	25.5	20.0	22.0	21.0
10 sec Gel	22 deg - 23.48 lbf/100ft ²			24 deg - 25.62 lbf/100ft ²		
10 min Gel	54 deg - 57.64 lbf/100ft ²			44 deg - 46.96 lbf/100ft ²		
Rheo. computed	Viscosity: 15.037 cP Yield Point: 39.13 lbf/100ft ²			Viscosity: 17.970 cP Yield Point: 38.05 lbf/100ft ²		

Thickening Time

Consistency	Time
Remark: Thickening time do not include batch time	
POD:	03:42 hr:mn
30 Bc	03:44 hr:mn
50 Bc	04:32 hr:mn
70 Bc	04:53 hr:mn

Comments

General Comment : 2:18
Fann Reading Comment :
Thickening Time Comment :
Other tests Comment : ; ; ; ;

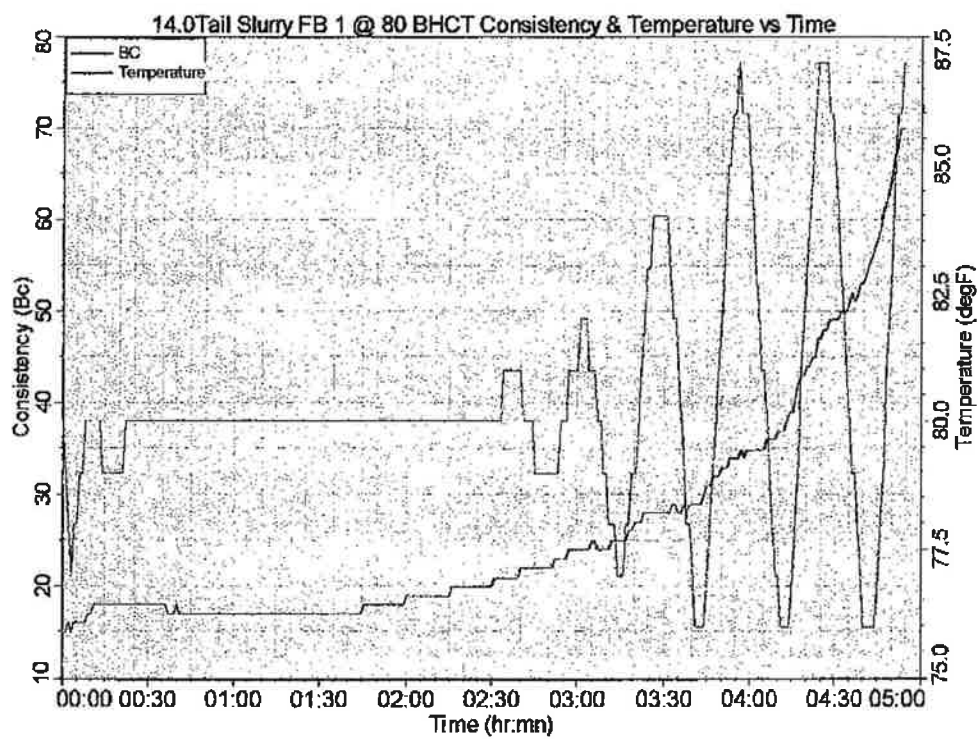
Client :
Formation :
Country :

Well :
District :

Schlumberger

LabDB*

Client : Nighthawk
Well : Taos 1-10
String : Surface
Rig :
Country : USA



13c115.cdw 04-10-2013 LoadCase Unfilled Version was: com472_05

*Mark of Schlumberger

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