Customer: NOBLE ENERGY INC

Job: NOBLE WELLS RANCH STATE BB03-620 PRODUCTION 906046383

Case: Case 1 | SO#: 906046383

The Road to Excellence Starts with Safety

Sold To #: 345242	Ship To # : 3954776				Quote #: 002263	Quote #: 0022639048 Sale			ales Order #: 0906046383		
Customer: NOBLE EN	ERGY INC	EBUS				Customer Rep:	NOBLE REP	<u> </u>			
Well Name: WELLS RANCH STATE					Vell #: BE	ell #: BB03-620 API/UWI #: 05-123-49940-00					
Field: WATTENBERG City (SAP): GILL					С	ounty/Parish: WELD	•	State	: COLORAI	DO	
Legal Description: SW	SW-3-5N	-63W-733	3FSL-919F	-WL				•			
Contractor: H & P DRL	.G				Rig/F	Platform Name/Num: H 8	k P 517				
Job BOM: 7523 7523											
Well Type: HORIZONT											
Sales Person: HALAM	ERICA\HB	31357			Srvc	Supervisor: Adam Covir	ngton				
						Job					
Formation Name						<u> </u>					
Formation Depth (M	ID)	Тор				Bottom					
Form Type					BHST	230 degF					
Job depth MD		16052ft)52ft			Job Depth TVD					
Water Depth						Wk Ht Above Floor					
Perforation Depth (I	MD)	From				То					
						Well Data					
Description	New /	Used	Size	ID	Weigh		Grade	Top MD	Bottom	Тор	Bottom
			in	in	lbm/f	t		ft	MD	TVD	TVD
									ft	ft	ft
Casing			9.625	8.921	36			0	1954	0	0
Casing			5.5	4.892	17			0	16052	0	6760
Open Hole Section				8.5				1954	16067	0	6760

Tools and Accessories									
Туре	Size	Qty	Make	Depth	Туре	Size	Qty	Make	
	in			ft		in			
Guide Shoe	5.5			16052	Top Plug	5.5	1	HES	
Float Shoe	5.5				Bottom Plug	5.5	2	HES	
Float Collar	5.5				SSR plug set	5.5		HES	
nsert Float	5.5				Plug Container	5.5	1	HES	
Stage Tool	5.5				Centralizers	5.5		HES	

Fluid Data

Stage/Plug #: 1

I	Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing	Yield	Mix	Rate	Total Mix
						Density	ft3/sack	Fluid	bbl/min	Fluid
						lbm/gal		Gal		Gal
	1	Tuned Prime Spacer	SBM FDP-C1337-18 CEMENT SPACER SYS	120	bbl	11.5	3.87		5	
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Fluid #	Stage Type		Fluid Name	Qty	Qty UoM	Mixing Density Ibm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
2	ElastiCem	ELAS	TICEM (TM) SYSTEM	140	sack	13.2	1.67		8	8.03
8	8.03 Gal	FRESH	WATER							
Fluid #	Stage Type		Fluid Name	Qty	Qty UoM	Mixing	Yield	Mix	Rate	Total Mix
						Density	ft3/sack	Fluid	bbl/min	Fluid
						lbm/gal		Gal		Gal
3	ElastiCem w/ SC	BL ELAS	TICEM (TM) SYSTEM	445	sack	13.2	1.67		8	8.04
Fluid #	Stage Type		Fluid Name	Qty	Qty UoM	Mixing	Yield	Mix	Rate	Total Mix
	0 7.					Density	ft3/sack	Fluid	bbl/min	Fluid
						lbm/gal		Gal		Gal
4	NeoCem NT1		NeoCem TM	1050	sack	13.2	2.04		8	9.79
Fluid #	Stage Type		Fluid Name	Qty	Qty UoM	Mixing	Yield	Mix	Rate	Total Mix
						Density	ft3/sack	Fluid	bbl/min	Fluid
						lbm/gal		Gal		Gal
5	Displacement		Displacement	371	bbl			Gal	10	
5	Displacement		Displacement	371	bbl	lbm/gal		Gal		
5 Cement Lef	·	Amount	Displacement 49 ft	371	bbl	lbm/gal				Gal
	·					Ibm/gal 8.33	/ater Temp		10 Shoe Joir	Gal
Cement Lef	t In Pipe	oH 7	49 ft	0 ppm		Ibm/gal 8.33	ater Tempoisp. Tempoisp. Tempoisp.	perature:	10 Shoe Joir	Gal
Cement Lef	t In Pipe Mix Water:	oH 7 °F °C	49 ft Mix Water Chloride:	0 ppm 8.33 lb/gal		Ibm/gal 8.33	Disp. Tem	perature:	10 Shoe Joir 70 °F	Gal

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2.0 Real-Time Job Summary

2.1 Job Event Log **Graph Label** Time Seq. No. Activity Date Source Comments Type HES CREW WAS CALLED OUT BY SERVICE Event 1 Call Out Call Out 10/26/2019 00:30:00 USER COORDINATORS FOR AN ON LOCATION **TIME OF 0630** MET WITH ALL HES EMPLOYEES, Event 2 **Pre-Convoy Safety Meeting Pre-Convoy Safety Meeting** 10/26/2019 03:20:00 USER DISCUSSED DRIVING DIRECTIONS, DRIVING AT NIGHT AND FOLLOWING DISTANCES. Event 3 **Depart Shop for Location Depart Shop for Location** 10/26/2019 03:30:00 USER DEPARTED FOR LOCATION. ARRIVED ON LOCATION EARLY. TALKED TO COMPANY MAN. THEY WERE GETTING GAS BACK SO TOLD US TO WAIT. PERFORMED HAZARD HUNT AND GOT Event Arrive At Loc Arrive At Loc 10/26/2019 05:05:00 USER NUMBERS. TD-16067' TP-16051' 5.5" 17# FC-16003' PC-1954' 9 5/8" 36# TVD-6760' MUD- 9.8#. WATER-- 70 DEGREES, CHLORIDES-0, PH-7. MET WITH ALL HES CREW MEMBERS Event Safety Meeting - Pre Rig-Up Safety Meeting - Pre Rig-Up 10/26/2019 14:00:00 USER DISCUSSED, SWINGS, TRIP HAZARDS AND TEAM LIFTS.

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Event	6	Safety Meeting - Pre Job	Safety Meeting - Pre Job	10/26/2019	16:00:00 USER	MET WITH ALL HES AND RIG CREW MEMBERS. DISCUSSED PRESSURES, JOB PROCEDURE AND EMERGENCY PROCESS.
Event	7	Start Job	Start Job	10/26/2019	16:24:04 COM5	FILLED LINES WITH 3 BBLS OF FRESH WATER. 4 BPM, 115 PSI.
Event	8	Pressure Test	Pressure Test	10/26/2019	16:39:01 USER	STARTED BY PERFORMING AT 500 PSI KICKOUT TEST, 5TH GEAR STALL OUT. THEN FIRST TESTED THE RIGS LINES AT 2500 PSI. HELD FOR A MINUTE, BLED OFF AND PRESSURED OUR LINE TO 5000 PSI. HELD FOR 2 MINUTES.
Event	9	Drop Bottom Plug	Drop Bottom Plug	10/26/2019	16:44:31 COM5	CO. MAN DROPPED FIRST HALLIBURTON 5.5" BOTTOM PLUG. ADAM COVINGTON WITNESSED.
Event	10	Pump Spacer 1	Pump Spacer 1	10/26/2019	16:44:40 COM5	PUMPED 120 BBLS OF 11.5#, 3.87y, 24.5wr TUNED PRIME SPACER AT 5 BPM, 145 PSI. USED 20 GALLONS OF D-AIR MIXED ON THE FLY.
Event	11	Drop Bottom Plug	Drop Bottom Plug	10/26/2019	17:14:28 COM5	ADAM COVINGTON DROPPED 2ND HALLIBURTON 5.5" BOTTOM PLUG. DRILLER WITNESSED.
Event	12	Pump Cap Cement	Pump Cap Cement	10/26/2019	17:15:17 COM5	PUMPED 42 BBLS (140 SKS) 13.2#, 1.67y, 8.03wr OF CAP CEMENT AT 8 BPM, 538 PSI.

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Event	13	Pump Lead Cement	Pump Lead Cement	10/26/2019	17:24:21 COM5	PUMPED 132 BBLS (445 SKS) OF 13.2#, 1.67y, 8.04wr LEAD CEMENT AT 8 BPM, 700 PSI. (MIX GALLONS FOR CAP AND LEAD 4,702 G/ 4,061G)
Event	14	Pump Tail Cement	Pump Tail Cement	10/26/2019	17:39:59 COM5	PUMPED 381.5 BBLS (1050 SKS) OF 13.2#, 2.04y, 9.79wr TAIL CEMENT AT 8 BPM, 880 PSI. (10,279 G/ 10,316 G.)
Event	15	Check Weight	Check Weight	10/26/2019	17:42:17 COM5	USED PRESSURIZED MUD SCALES TO WEIGH UP CEMENT. CEMENT WEIGHED UP AT 13.2#.
Event	16	Shutdown	Shutdown	10/26/2019	18:29:06 COM5	SHUTDOWN BLOW LINES BACK, WASH PUMP AND GET READY TO DROP PLUG.
Event	17	Clean Lines	Clean Lines	10/26/2019	18:37:54 COM5	CLEANED PUMPS AND LINES.
Event	18	Drop Top Plug	Drop Top Plug	10/26/2019	18:41:19 COM5	COMPANY MAN DROPPED HALLIBURTON 5.5" TOP PLUG. ADAM COVINGTON WITNESSED.
Event	19	Pump Displacement	Pump Displacement	10/26/2019	18:41:35 COM5	PUMPED 371 BBLS OF DISPLACEMENT. FIRST 20 BBLS GONE HAD 10 GALLONS OF MMCR DISPERSED THROUGHOUT. THEN THE BE3 PACKETS WERE DISPERSED. CAUGHT CEMENT AT 20 BBLS OF DISPLACEMENT AWAY. 10 BPM, 1400 PSI.
Event	20	Bump Plug	Bump Plug	10/26/2019	19:28:51 COM5	BUMPED PLUG. FCP-2280 PSI. TOOK UP TO 3000 PSI AND HELD FOR 5 MINUTES AS PER CO MAN.

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Event	21	Other	Other	10/26/2019	19:33:51 COM5	BLED PRESSURE BACK TO TRUCK. GOT 5 BBLS OF WATER BACK TO THE TRUCK ONCE FLOW STOPPED, INDICATING THAT THE FLOATS HELD.
Event	22	Safety Meeting - Pre Rig-Down	Safety Meeting - Pre Rig-Down	10/26/2019	19:40:00 USER	MET WITH HES EMPLOYEES DISCUSSED TEAM LIFTS, STRETCHING BECAUSE ITS COLD AND SWINGS.
Event	23	End Job	End Job	10/26/2019	19:47:59 COM5	JOB COMPLETED NO SPACER OR CEMENT TO SURFACE. TOTC-6701' TOLC-3455' TOC-2425'
Event	24	Depart Location Safety Meeting	Depart Location Safety Meeting	10/26/2019	22:10:00 USER	MET WITH HES CREW MEMBERS AND DISCUSSED HOS, DIRECTIONS AND DRIVING AT NIGHT.
Event	25	Depart Location	Depart Location	10/26/2019	22:30:00 USER	JOB COMPLETELY SUCCESSFULLY BY ADAM COVINGTON AND CREW.

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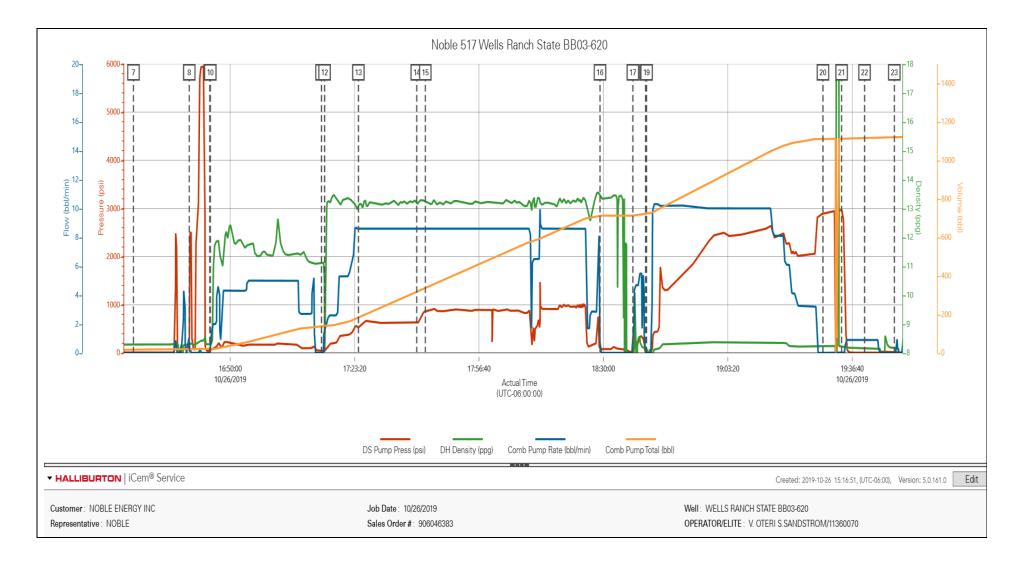
3.0 Attachments

3.1 Job Chart

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Created: Saturday, October 26, 2019