



Service Order

30-019-20138

2009-Apr-11

Customer SHELL OIL COMPANY		Person Taking Call Martinez, Raul		Dowell Location Hobbs, NM		OrderDate 2009-Apr-06		Job Number 2201758760							
Well Name and Number Latigo Ranch 3-3			Legal Location		Field		County Guadalupe		State/Province NM						
Well Master: 0631107819			API / UWI:												
Rig Name Nabors M-43			Well Age New		Sales Engineer Bryant, Rodney			Job Type Cem Surface Casing							
Time Well Ready:		Deviation		Bit Size 14.8 in		Well MD 1,542 ft		Well TVD 1,542 ft		BHP psi		BHST 91 °F		BHCT 85 °F	
Treat Down Casing		Packer Type		Packer Depth ft		WellHead Connection 10 3/4 M&H&QC		HHP on Location 850		Max Allowed Pressure		Max Allowed AnnPressure			
Casing					Services Instructions:										
Depth, ft		Size, in		Weight, lb/ft		Grade		Thread		Cement 1600' of 10 3/4" Surface Casing...					
1542		10.75		40.5		K55		8RD		300 lbs of sugar for pits, LOU: 4900005296 Network Latigo #30088286					
Tubing					Extra Equipment:										
Depth,		Size, in		Weight, lb/ft		Grade		Thread		10 3/4" H&M&QC&S					
										10 3/4" Top and Bottom Plugs					
Perforated Intervals															
Top, ft		Bottom, ft		spf		No. of Shots		Total Interval ft							
								Diameter in							
Expected On Location:														Ready To Pump:	

Contact	Voice	Mobile	FAX	Notes
George Stampley		307-749-5211		

Notes:**Directions:****Other Notes:**

CHECK LOADING BEFORE LEAVING THE YARD !!!
CHECK THE TICKET CAREFULLY !!!
DRIVE AND WORK SAFELY !!!
Ensure to add "Fuel Surcharge" after completing the rest of the ticket !!

Comments:

Material	Description	Quantity Needed
H015	Acid, Hydrochloric 15% H15	0 GA

Fluid Systems:

Extra			
300 lbs of sugar on the side for use in pits			
Density:	lb/gal	Thickening Time:	
Yield:	ft ³ /sk		
H2O Mix:	0 gal/sk		
H2O:	0 gal	Eq. Sack Weight:	0 lb
		Total Blend:	0 sacks
Dowell Code	Conc/ Amount	Total Quantity	
100000009	300	300	

Plug			
10 3/4" Top and Bottom Plugs			
Density:	lb/gal	Thickening Time:	
Yield:	ft ³ /sk		
H2O Mix:	0 gal/sk		
H2O:	0 gal	Eq. Sack Weight:	0 lb
		Total Blend:	0 sacks
Dowell Code	Conc/ Amount	Total Quantity	
56740106	1	1	

Lead			
425 sks Class C + 5% D053 + 2.5% D079 + 3% S001 + 0.6% D046 + 3pps D042 + 0.25pps D029			
Density:	11.5 lb/gal	Thickening Time:	
Yield:	2.98 ft ³ /sk		
H2O Mix:	17.856 gal/sk		
H2O:	7588.8 gal	Eq. Sack Weight:	94 lb
		Total Blend:	425 sacks
Dowell Code	Conc/ Amount	Total Quantity	
D046	0.6 % BWOB	239.7	
D079	2.5 % BWOB	998.75	
D053	5 % BWOB	1997.5	
S001	3 % BWOB	1198.5	
D029	0.25 lbs/sk	106.25	
D042	3 lbs/sk	1275	
D903	94 lbs/sk	39950	

Tail			
365 Sks Class C + 4% D020			
Density:	13.5 lb/gal	Thickening Time:	
Yield:	1.73 ft ³ /sk		
H2O Mix:	9.154 gal/sk		
H2O:	3341.21 gal	Eq. Sack Weight:	94 lb
		Total Blend:	365 sacks
Dowell Code	Conc/ Amount	Total Quantity	
D020	4 % BWOB	1372.4	
D903	94 lbs/sk	34310	

Top Out			
350 sks Class C Neat			
Density:	lb/gal	Thickening Time:	
Yield:	ft ³ /sk		
H2O Mix:	0 gal/sk		
H2O:	0 gal	Eq. Sack Weight:	0 lb
		Total Blend:	350 sacks
Dowell Code	Conc/ Amount	Total Quantity	
D903	94 lbs/sk	32900	

Cementing Service Report

Customer SHELL OIL COMPANY										Job Number 2201758760			
Well Latigo Ranch 3-3				Location (legal)				Schlumberger Location Hobbs, NM		Job Start 2009-Apr-11			
Field		Formation Name/Type				Deviation		Bit Size 14.8 in		Well MD 1,542 ft			
County Guadalupe		State/Province NM				BHP psi		BHST 91 °F		BHCT 85 °F			
Well Master: 0631107819		API / UWI:				Casing/Liner							
Rig Name Nabors M-43		Drilled For Oil & Gas		Service Via Land		Depth, ft 1542		Size, in 10.75		Weight, lb/ft 40.5			
Offshore Zone		Well Class New		Well Type Exploration									
Drilling Fluid Type		Max. Density 0 lb/gal		Plastic Viscosity 0 cp		Depth, ft		Size, in		Weight, lb/ft			
Service Line Cementing		Job Type Cem Surface Casing				Perforations/Open Hole							
Max. Allowed Tubing Pressure psi		Max. Allowed Ann. Pressure psi		Wellhead Connection 10 3/4 M&H&QC		Top, ft		Bottom, ft		Total Interval ft			
Service Instructions Cement 1600' of 10 3/4" Surface Casing... 300 lbs of sugar for pits, LOU: 4900005296 Network Latigo #30088286						Treat Down Casing		Displacement 142 bbl		Packer Type Packer Depth			
						Tubing Vol. bbl		Casing Vol. 147 bbl		Annular Vol. 153 bbl		Open Hole Vol. 326 bbl	
Casing/Tubing Secured ☒ 1 Hole Volume Circulated prior to Cementing ☐						Casing Tools			Squeeze Job				
Lift Pressure: 778 psi						Shoe Type: Guide			Squeeze Type Hesitation				
Pipe Rotated ☐ Pipe Reciprocated ☐						Shoe Depth: 1542 ft			Tool Type: Retainer				
No. Centralizers: 0 Top Plugs: 1 Bottom Plugs: 1						Stage Tool Type			Tool Depth: 1250 ft				
Cement Head Type: Single						Stage Tool Depth: 0 ft			Tail Pipe Size: 0 in				
Job Scheduled For: 2009-Apr-10 13:00						Collar Type: Float			Tail Pipe Depth: 0 ft				
Arrived on Location: 2009-Apr-11 13:00						Collar Depth: 1454 ft			Sqz Total Vol: 0 bbl				
Date		Time		Treating Pressure psi		Flow Rate bbl/min		CMT DENS lb/gal		Message			
2009-Apr-11		16:21		-1		0.0		8.35					
2009-Apr-11		16:21								Sign Auth.			
2009-Apr-11		16:21		-1		0.0		8.35		Safety Meeting			
2009-Apr-11		16:21								Clear Lines			
2009-Apr-11		16:21		-1		0.0		8.35		Test Lines 3500 PSI			
2009-Apr-11		16:22		-0		0.0		8.35		Break Circulation			
2009-Apr-11		16:22		-1		0.0		8.35					
2009-Apr-11		16:22		-1		0.0		8.35					
2009-Apr-11		16:22								Pump 20 BBLS F/W Spacer Ahead			
2009-Apr-11		16:26		2864		0.0		8.34					
2009-Apr-11		16:31		170		4.1		8.33					
2009-Apr-11		16:35								Reset Total, Vol = 36.91 bbl			
2009-Apr-11		16:35		270		6.2		11.41					
2009-Apr-11		16:36		312		6.2		11.35					
2009-Apr-11		16:36								Start Pump Lead Cement At 5:35 PM NM Time			
2009-Apr-11		16:36		297		6.4		11.34					

Well			Field		Service Date		Customer		Job Number
Latigo Ranch #3-3					09101-Apr-11		SHELL OIL COMPANY		2201758760
Date	Time	Treating Pressure	Flow Rate	CMT DENS	0	0	0	0	Message
	24 hr clock	psi	bbl/min	lb/gal	0	0	0	0	
2009-Apr-11	16:39	269	8.2	11.78	0	0	0	0	
2009-Apr-11	16:39								Very Good Circulation At Surface
2009-Apr-11	16:40								Lead Cement 225 BBLS = 425 SKS At 11.5 PPG
2009-Apr-11	16:40	487	8.3	11.66	0	0	0	0	
2009-Apr-11	16:40								Lead Set Time 6 Hours & 50 Min.
2009-Apr-11	16:40	443	8.2	11.61	0	0	0	0	
2009-Apr-11	16:41	445	8.2	11.58	0	0	0	0	
2009-Apr-11	16:41								Very Good Circulation At Surface
2009-Apr-11	16:41	456	8.2	11.56	0	0	0	0	
2009-Apr-11	16:46	423	8.2	11.55	0	0	0	0	
2009-Apr-11	16:51	422	8.2	11.45	0	0	0	0	
2009-Apr-11	16:56	434	8.2	11.55	0	0	0	0	
2009-Apr-11	17:01	455	8.2	11.30	0	0	0	0	
2009-Apr-11	17:04								Reset Total, Vol = 231.80 bbl
2009-Apr-11	17:04	492	8.3	12.74	0	0	0	0	
2009-Apr-11	17:04								End Lead Cement At 6:04 PM NM Time
2009-Apr-11	17:04	467	8.2	13.28	0	0	0	0	
2009-Apr-11	17:05	469	8.3	13.20	0	0	0	0	
2009-Apr-11	17:05								Start Pump Tail Cement At 6:05 PM NM Time
2009-Apr-11	17:06	521	8.2	13.23	0	0	0	0	
2009-Apr-11	17:08								Tail Cement 112 BBLS = 365 SKS Cement At 13.5 PPG
2009-Apr-11	17:08	530	8.2	13.03	0	0	0	0	
2009-Apr-11	17:08	530	8.2	12.94	0	0	0	0	
2009-Apr-11	17:08								Very Good Circulation At Surface
2009-Apr-11	17:11	518	8.2	13.12	0	0	0	0	
2009-Apr-11	17:16	384	6.4	13.84	0	0	0	0	
2009-Apr-11	17:21	22	0.0	7.40	0	0	0	0	
2009-Apr-11	17:26	199	6.4	8.28	0	0	0	0	
2009-Apr-11	17:27	222	6.4	8.39	0	0	0	0	
2009-Apr-11	17:27								Reset Total, Vol = 148.37 bbl
2009-Apr-11	17:27								End Tail Cement
2009-Apr-11	17:27	237	6.4	8.39	0	0	0	0	
2009-Apr-11	17:27								Stop Pumping
2009-Apr-11	17:27	231	6.2	8.38	0	0	0	0	
2009-Apr-11	17:27	221	6.4	8.37	0	0	0	0	
2009-Apr-11	17:27								Drop Plug
2009-Apr-11	17:28								Start Pump 142 BBLS F/W Displacement
2009-Apr-11	17:28	229	6.2	8.34	0	0	0	0	
2009-Apr-11	17:31	329	6.2	8.33	0	0	0	0	
2009-Apr-11	17:36	231	2.9	8.27	0	0	0	0	
2009-Apr-11	17:41	364	4.4	8.33	0	0	0	0	
2009-Apr-11	17:46	453	4.4	8.33	0	0	0	0	
2009-Apr-11	17:51	429	2.3	8.33	0	0	0	0	
2009-Apr-11	17:56	454	0.4	8.33	0	0	0	0	
2009-Apr-11	17:59								Plug Down At 6:55 NM Time
2009-Apr-11	17:59	1497	0.0	8.33	0	0	0	0	
2009-Apr-11	18:01	1495	0.0	8.33	0	0	0	0	

Well		Field		Service Date		Customer		Job Number	
Latigo Ranch #3-3				09101-Apr-11		SHELL OIL COMPANY		2201758760	
Date	Time	Treating Pressure	Flow Rate	CMT DENS	0	0	0	0	Message
	24 hr clock	psi	bbbl/min	lb/gal	0	0	0	0	
2009-Apr-11	18:04								Bump Plug 385 PSI To 893 PSI
2009-Apr-11	18:04	1493	0.0	8.33	0	0	0	0	
2009-Apr-11	18:04	1493	0.0	8.33	0	0	0	0	
2009-Apr-11	18:04								Check Float
2009-Apr-11	18:04	1493	0.0	8.33	0	0	0	0	
2009-Apr-11	18:04								Float Held
2009-Apr-11	18:05	1494	0.0	8.33	0	0	0	0	
2009-Apr-11	18:05								Test Casing To 1500 PSI For 30 Min.
2009-Apr-11	18:06	1493	0.0	8.33	0	0	0	0	
2009-Apr-11	18:11	1491	0.0	8.33	0	0	0	0	
2009-Apr-11	18:11								Circulated 142 BBLS = 267 SKS Cement To Surface
2009-Apr-11	18:11	1491	0.0	8.33	0	0	0	0	
2009-Apr-11	18:16	1492	0.0	8.33	0	0	0	0	
2009-Apr-11	18:21	1492	0.0	8.33	0	0	0	0	
2009-Apr-11	18:26	1491	0.0	8.33	0	0	0	0	
2009-Apr-11	18:31	2	0.0	4.55	0	0	0	0	
2009-Apr-11	18:31								End Job
2009-Apr-11	18:31	-3	0.0	0.55	0	0	0	0	
2009-Apr-11	18:31								Stopped Acquisition
Post Job Summary									
Average Pump Rates, bpm					Volume of Fluid Injected, bbl				
Slurry	N2	Mud	Maximum Rate		Total Slurry	Mud	Spacer	N2	
7	0	0	8		337	0	20	0	
Treating Pressure Summary, psi					Breakdown Fluid				
Maximum	Final	Average	Bump Plug to	Breakdown	Volume		Density		
893	0	350	893	0	0 bbl		8.34 lb/gal		
Avg. N2 Percent	Designed Slurry Volume		Displacement	Mix Water Temp	☒ Cement Circulated to Surface?		Volume 142 bbl		
0 %	0 bbl		142 bbl	°F	☐ Washed Thru Perfs To		0 ft		
Customer or Authorized Representative			Schlumberger Supervisor		☐ CirculationLost		☒ Job Completed		
Stampley, George			Cantu, Ernest						

Well	# 3-3	Client	Shell Oil Company
Field	Ladigo Ranch	SIR No.	2201758760
Engineer		Job Type	Cement 10 3/4 Surface Casing
Country	United States	Job Date	04-11-2009

