

30-019-20138

Mr. Stample

RECEIVED

Schlumberger**Service Order**

2009-May-01

Customer SHELL OIL COMPANY		Person Taking Call Martinez, Raul		Dowell Location Hobbs, NM		Order Date 2009-Feb-19		Job Number 2201758762						
Well Name and Number Latigo Ranch 3-3		Legal Location		Field Cuervo		County Guadalupe		State/Province NM						
Well Master: 0631107819		API / UWI: 3-019-20138												
Rig Name Nabors M-43		Well Age New		Sales Engineer Bryant, Rodney		Job Type Cem Interm Casing								
Time Well Ready:		Deviation		Bit Size 9.88 in		Well MD 5,978 ft		Well TVD 5,978 ft						
						BHP psi		BHST 143 °F						
								BHCT 121 °F						
Treat Down Casing		Packer Type		Packer Depth ft		WellHead Connection Single cement head		HHP on Location 850						
								Max Allowed Pressure						
								Max Allowed AnnPressure						
Casing					Services Instructions: Cement 5978' of 7 5/8" intermediate casing LOU: 4900005296 Network Latigo #30088286									
<table border="1"> <tr> <th>Depth, ft</th> <th>Size, in</th> <th>Weight, lb/ft</th> <th>Grade</th> <th>Thread</th> </tr> <tr> <td>5978</td> <td>7.63</td> <td>29.7</td> <td>P-110</td> <td></td> </tr> </table>										Depth, ft	Size, in	Weight, lb/ft	Grade	Thread
Depth, ft	Size, in	Weight, lb/ft	Grade	Thread										
5978	7.63	29.7	P-110											
Tubing					Extra Equipment: Head, manifold QC Swadge - 8 rd thread									
<table border="1"> <tr> <th>Depth,</th> <th>Size, in</th> <th>Weight, lb/ft</th> <th>Grade</th> <th>Thread</th> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>										Depth,	Size, in	Weight, lb/ft	Grade	Thread
Depth,	Size, in	Weight, lb/ft	Grade	Thread										
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		281-714-2406		

Notes:

NO cell phones on location
 Sign in with safety man first thing on location
 Hearing protection required while on location

Directions:

Directions attached

Other Notes:

Cell service dead on location-call yard when leaving Santa Rosa on way to location.
 Call dispatch when arriving in Santa Rosa after job. Customer has phone for emergencies

Comments:

Up to date JSA's and HARC- discuss with company man before performing any work on location

Rain for rent catch tarps under pump truck-NO SPILLS

Any spills or incidents to be reported IMMEDIATELY to company man and safety supervisor on location

Fluid Systems:

Extra		
300 lbs of sugar		
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	Concl/ Amount	Total Quantity
57998000	300 lbs	300

Tail		
266 sks Class C + 0.6% D800		
Density:	14.8 lb/gal	Thickening Time:
Yield:	1.33 ft ³ /sk	
H2O Mix:	6.381 gal/sk	
H2O:	1697.35 gal	Eq. Sack Weight: 94 lb
		Total Blend: 266 sacks
Dowell Code	Concl/ Amount	Total Quantity
D800	0.564 lbs/sk	150.024
D903	94 lbs/sk	25004

Lead		
1024 sks 35:65 Poz/C + 10% D020 + 0.4% D046 + 5% D044 + 3pps D042 + 0.25pps D029 + 0.15% D13		
Density:	11.8 lb/gal	Thickening Time:
Yield:	2.63 ft ³ /sk	
H2O Mix:	15.674 gal/sk	
H2O:	16050.2 gal	Eq. Sack Weight: 89 lb
		Total Blend: 1024 sacks
Dowell Code	Concl/ Amount	Total Quantity
D013	0.133 lbs/sk	136.192
D903	61 lbs/sk	62464
D029	0.25 lbs/sk	256
D044	5 % BWOW	6692.923392
D046	0.4 % BWOB	364.544
D020	10 % BWOB	9113.6
D042	3 lbs/sk	3072
D132	28 lbs/sk	28672

Shell - Latigo Ranch 3-3 Intermediate Field Blend Lead

Fluid No : 2009 9C135001	Client : Shell	Location / Rig : Guadalupe, NM	Signatures
Date : Apr-16-2009	Well Name : Latigo Ranch 3-3	Field :	A. Galindo

Job Type	Intermediate	Depth	6300.0 ft	TVD	6300.0 ft
BHST	145 degF	BHCT	121 degF	BHP	5110 (psi)
Starting Temp.	80 degF	Time to Temp.	00:42 hr:mn	Heating Rate	0.99 degF/min
Starting Pressure	565 psi	Time to Pressure	00:42 hr:mn	Schedule	9.6-1

Composition

Slurry Density	11.80 lb/gal	Yield	2.69 ft ³ /sk	Mix Fluid	15.858 gal/sk
Solid Vol. Fraction	21.3 %	Porosity	78.7 %	Slurry type	Conventional

Blend 35/65 C

D903	61 lb
D132	28 lb

Component	Concentration	Sec. Retarder	Component	Concentration
35/65 C		89 lb of BLEND	Blend	186.60 lb/ft ³
Fresh water	15.623 gal/sk		Base Fluid	
D020	10.000 %BWOB		Extender	
D046	0.400 %BWOB		Antifoam	
D044	5.000 %BWOW		Salt	
D042	3.000 lb/sk		LCM/extender	
D029	0.250 lb/sk		Lost circ	
D013	0.150 %BWOB		Retarder	

Rheology (Average readings)

(rpm)	(deg)	(deg)
300	21.0	22.0
200	18.5	20.5
100	16.0	17.0
60	14.0	16.0
30	12.0	14.0
6	10.0	9.0
3	8.0	8.0
10 sec Gel	10	9
10 min Gel	16	9
1 min Stirring	21	21
Temperature	80 degF	121 degF
	Pv: 8.809 cP	Pv: 8.374 cP
	Tv: 12.54 lb/100ft ²	Tv: 14.21 lb/100ft ²

Thickening Time

POD :	03:12 hr:mn
50 Bc	03:32 hr:mn
70 Bc	06:59 hr:mn

CONFIDENTIAL

Shell - Latigo Ranch 3-3 Intermediate Field Blend Tail

Fluid No : 2009 9C135002	Client : Shell	Location / Rig : Guadalupe, NM	Signatures
Date : Apr-16-2009	Well Name : Latigo Ranch 3-3	Field :	A. Galindo

Job Type	Intermediate	Depth	6350.0 ft	TYD	6350.0 ft
BHST	145 degF	BHCT	121 degF	BHP	3745 (psi)
Starting Temp.	80 degF	Time to Temp.	00:34 hr:mn	Heating Rate	1.04 degF/min
Starting Pressure	468 psi	Time to Pressure	00:34 hr:mn	Schedule	9.5-2

Composition

Slurry Density	14.80 lb/gal	Yield	1.33 ft ³ /sk	Mix Fluid	0.329 gal/sk
Solid Vol. Fraction	36.4 %	Porosity	63.6 %	Slurry type	Conventional

C	94 lb of BLEND	Blend	197.27 lb/ft ³
Fresh water	6.329 gal/sk	Base Fluid	
D300	0.600 %BWOC	Retarder	

Rheology (Average readings)

Shear Rate (1/min)	Shear Stress (lb/ft ²)	Apparent Viscosity (cP)
300	38.0	57.0
200	32.0	49.0
100	24.5	39.5
60	21.0	35.0
30	17.5	30.0
6	15.5	19.0
3	13.5	14.0

10 sec Gel	18	16
10 min Gel	32	12
1 min Stirring	57	50

Temperature	80 degF	121 degF
-------------	---------	----------

Pv: 22.863 cP	Pv: 29.490 cP
Ty: 16.06 lb/100ft ²	Ty: 28.65 lb/100ft ²

Thickening Time

Consistency	Time
POD :	03:58 hr:mn
50 Bc	04:23 hr:mn
70 Bc	04:33 hr:mn

Shell Oil Company

Latigo Ranch #3-3

5/1/2009

Company Rep. Mr. Stampley

Safety Meeting

Clear Lines Drop Bottom Plug

Test Lines 3500 PSI

Break Circulation

Pump 20 BBLs F/W Spacer Ahead

490 BBLs Lead At 11.8 PPG

All Lead In Silo-0041 & 0672

And F-ABT 15962 F-ABT 15935

63 BBLs Tail At 14.8 PPG

All Tail F&B ABT-29521 & B ABT-15962

Stop Pump

Drop Top Plug

254 BBLs F/W Displacement

8 BPM

Top PSI 3000 PSI

Slow Down Last 10 BBLs Displ.

Burst 8688 PSI Collapse-6280

Diff-1269 PSI Lift-4770 PSI

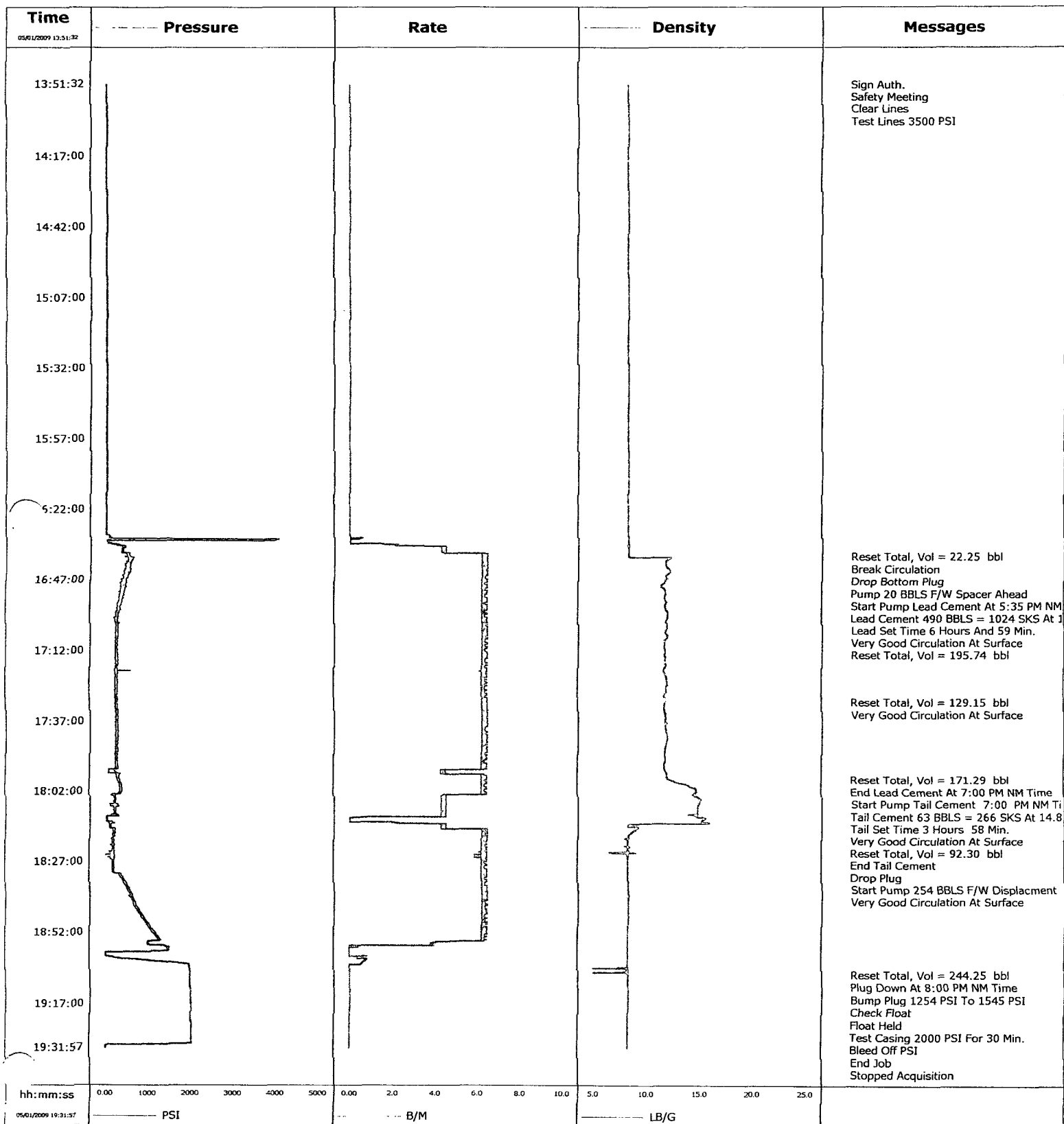
Check Float

Float Holds Rig Down

Pump Time At 8 BPM

1 Hour & 43 Min.

Well	#3-3	Client	Shell Oil Company
Field	Ladigo Ranch	SIR No.	2201758762
Engineer		Job Type	Cement 7 5/8 Inter. Casing
Country	United States	Job Date	05-01-2009



Well			Field		Service Date		Customer			Job Number
Latigo Ranch #3-3			Cuervo		09121-May-01		SHELL OIL COMPANY			2201758762
Date	Time	Treating Pressure	Flow Rate	Density	Volume	0	0	0	Message	
	24 hr clock	psi	bbl/min	lb/gal	bbl	0	0	0		
2009-May-01	16:41								Lead Cement 490 BBLS = 1024 SKS At 11.8 PPG	
2009-May-01	16:41	556	6.2	11.80	37.4	0	0	0		
2009-May-01	16:41								Lead Set Time 6 Hours And 59 Min.	
2009-May-01	16:41	561	6.4	11.82	40.0	0	0	0		
2009-May-01	16:41	510	6.2	11.86	41.5	0	0	0		
2009-May-01	16:41								Very Good Circulation At Surface	
2009-May-01	16:41	561	6.5	11.86	42.1	0	0	0		
2009-May-01	16:46	486	6.4	11.85	73.2	0	0	0		
2009-May-01	16:51	417	6.2	11.82	104.8	0	0	0		
2009-May-01	16:56	359	6.4	11.87	136.4	0	0	0		
2009-May-01	17:01	272	6.4	11.88	168.0	0	0	0		
2009-May-01	17:06	291	6.4	11.99	199.6	0	0	0		
2009-May-01	17:09	294	6.4	11.66	218.0	0	0	0		
2009-May-01	17:09								Reset Total, Vol = 195.74 bbl	
2009-May-01	17:11	285	6.4	11.75	231.2	0	0	0		
2009-May-01	17:16	300	6.4	11.85	262.8	0	0	0		
2009-May-01	17:21	281	6.2	11.95	294.5	0	0	0		
2009-May-01	17:26	275	6.2	11.79	326.0	0	0	0		
2009-May-01	17:30								Reset Total, Vol = 129.15 bbl	
2009-May-01	17:30	270	6.4	11.73	347.1	0	0	0		
2009-May-01	17:31	300	6.2	11.68	357.7	0	0	0		
2009-May-01	17:32								Very Good Circulation At Surface	
2009-May-01	17:32	287	6.2	11.67	362.8	0	0	0		
2009-May-01	17:36	282	6.4	11.77	389.3	0	0	0		
2009-May-01	17:41	294	6.4	11.96	421.0	0	0	0		
2009-May-01	17:46	285	6.4	11.75	452.5	0	0	0		
2009-May-01	17:51	280	6.2	11.71	484.1	0	0	0		
2009-May-01	17:56	332	6.2	12.07	512.8	0	0	0		
2009-May-01	17:57	359	6.2	12.58	518.4	0	0	0		
2009-May-01	17:57								Reset Total, Vol = 171.29 bbl	
2009-May-01	17:58								End Lead Cement At 7:00 PM NM Time	
2009-May-01	17:58	345	6.5	12.88	521.7	0	0	0		
2009-May-01	18:00								Start Pump Tail Cement 7:00 PM NM Time At 14.8 PPG	
2009-May-01	18:00	397	6.2	14.70	535.5	0	0	0		
2009-May-01	18:00								Tail Cement 63 BBLS = 266 SKS At 14.8 PPG	
2009-May-01	18:00	408	6.5	14.76	538.1	0	0	0		
2009-May-01	18:01	396	6.4	14.77	540.2	0	0	0		
2009-May-01	18:01								Tail Set Time 3 Hours & 58 Min.	
2009-May-01	18:01	409	6.4	14.80	541.5	0	0	0		
2009-May-01	18:01								Very Good Circulation At Surface	
2009-May-01	18:01	406	6.4	14.77	544.3	0	0	0		
2009-May-01	18:06	245	4.5	14.87	568.6	0	0	0		
2009-May-01	18:11	42	0.0	15.29	586.4	0	0	0		
2009-May-01	18:16	213	6.2	8.42	607.8	0	0	0		
2009-May-01	18:17								Reset Total, Vol = 92.30 bbl	
2009-May-01	18:17	217	6.4	8.33	610.7	0	0	0		
2009-May-01	18:17								End Tail Cement	

Well Latigo Ranch #3-3			Field Cuervo		Service Date 09121-May-01		Customer SHELL OIL COMPANY			Job Number 2201758762	
Date	Time 24 hr clock	Treating Pressure psi	Flow Rate bbl/min	Density lb/gal	Volume bbl	0 0	0 0	0 0	Message		
Post Job Summary											
Average Pump Rates, bpm						Volume of Fluid Injected, bbl					
Slurry		N2		Mud		Maximum Rate		Total Slurry		Mud	
6						6		553		20	
Treating Pressure Summary, psi						Breakdown Fluid					
Maximum		Final		Average		Bump Plug to		Breakdown		Volume	
2000				350		2000				8.34 lb/gal	
Avg. N2 Percent		Designed Slurry Volume		Displacement		Mix Water Temp		☐ Cement Circulated to Surface?		Volume	
%		bbl		254 bbl		°F		☐ Washed Thru Perfs		To	
										ft	
Customer or Authorized Representative				Schlumberger Supervisor				☐ CirculationLost			
Stampley, George				Cantu, Ernest				☒ Job Completed			

BLM
Schlumberger

Service Order for i-District Job 247618

Customer Name: SHELL OIL COMPANY	Person Taking Call:	Location: Hobbs, NM WS	Order Date:	Job Number: 247618			
Service Order Number: B19J-00014	Service Line: Cementing	Supervisor: Martinez, Raul	Legal Location:				
Well Name and Number: Latigo Ranch, 3-3	Pad/Platform:	Field: Cuervo	County: Guadalupe	State/Prov: New Mexico			
Well Master Number: 0631107819	API/UWI:	Rig Name:	Well Age: New	Sales Engineer: Granados, Luis			
Job Type: Cementing - 4.5" Production Casing	Time Well Ready:	Deviation:	Hole Size:	Well MD: 14415 ft			
Well TVD:	BHP: 9060 psi	BHST: 240 °F	BHCT: 225 °F	Treat Down: Casing			
Packer Type:	Packer Depth:	Well Head Connection:	HHP on Location: 850 hhp	Max Allowed Pressure:			
Max Allowed Ann Pressure:		Job Stage Number:	FTL Ticket/Quote Number : <Invalid Tag>				
Expected on Location:	Ready to Pump:	Job Start Date: 6/13/2009 6:30 AM	Job End Date: 6/13/2009 12:30 PM				
Leave for Job: 6/13/2009 6:30:00 AM		Arrive from Job: 6/13/2009 12:30:00 PM					
Casing/Tubing			Service Instructions: Cement 14500' of 4 1/2" Production casing LOU:4900005296 NET WORK LATIGO: #30088286				
String Type	Depth	Size			Weight	Grade	Thread
Casing	6350 ft	7.625 in			29.7 lb/ft	P-110	LTC
Casing	14415 ft	4.5 in			13.5 lb/ft	P-110	DWC-SR
Perforations							
Top	Bottom	SPF			No of Shots	Formation Name	
Total Interval: 0			Diameter:				
Coiled Tubing							
Size	Thickness	Length	String ID	Reel ID			
Client Contact							
Name	Voice	Fax	Email	Title	Company	Notes	
George Stampley	307-749-5211				SHAREWELL LP		
Notes: Cement 14500' of 4 1/2" Production casing LOU:4900005296 NET WORK LATIGO: #30084800 NO cell phones on location Sign in with safety man first thing on location Hearing protection required while on location Up to date JSA's and HARC- discuss with company man before performing any work on location Rain for rent catch tarps under pump truck-NO SPILLS Any spills or incidents to be reported IMMEDIATELY to company man and safety supervisor on location							
Directions: Directions Attached							

Materials				
Name	Code	Description	Quantity	Density
Lead			280.33 bbl	12.00 lb/gal
MudPUSHII		Fresh Water 41.619 bbl	50.00 bbl	10.00 lb/gal
Sugar	Sugar		300.00 lb	
Tail			15.00 bbl	15.60 lb/gal

Fluid Systems:

Lead			
732 sks PVL + 20% D154 + 0.8% D65 + 0.5% D46 + 0.2% D65 + 0.125pps D130 + 4% D020 + 0.6% D198			
Sacks Of:	CEMEN	Total	54,904.7 lb
	T	Blend/Cem:	6
Sack Weight:	75.00 lb	Dry Blend Code:	Latigo 3-3 Lead
Yield:	2.15 ft3/sk		
Mix Water:	11.80 gal/sk	Base Fluid Den:	
Mix Fluid:	11.80 gal/sk	Volume:	
Mix Water Den:	8.34 lb/gal	Base Fluid Vol:	
Sacks Blend/Cem:	732.06 sks	Acid Volume:	
Total Mix Water:	32.70 m3	Acid Conc:	
Total Mix Fluid:	32.70 m3		
Code	Conc	Total	Adjusted Total
D049	75.00 lb/sk	54,904.76 lb	54,904.76 lb
D154	20.00 %	10,980.95 lb	10,980.95 lb
D167	0.80 %	439.24 lb	439.24 lb
D046	0.50 %	274.52 lb	274.52 lb
D065	0.20 %	109.81 lb	109.81 lb
D130	0.13 lb/sk	91.51 lb	91.51 lb
D020	4.00 %	2,196.19 lb	2,196.19 lb
D198	0.60 %	329.43 lb	329.43 lb

MudPUSHII			
Fresh Water 41.619 bbl 4673.94 lbs D031 + 249.712 lbs D182 + 100gal U066 + 100gal F108			
Sacks Of:		Total	
Sack Weight:		Blend/Cem:	
Yield:		Dry Blend Code:	
Mix Water:		Base Fluid Den:	
Mix Fluid:		Volume:	50.00 bbl
Mix Water Den:		Base Fluid Vol:	
Sacks Blend/Cem:		Acid Volume:	
Total Mix Water:	41.619 bbl	Acid Conc:	
Total Mix Fluid:			
Code	Conc	Total	Adjusted Total
D182	4.99 lb/bbl	249.50 lb	249.50 lb
D031	93.48 lb/bbl	4,674.00 lb	4,674.00 lb
F108	2.00 gal/bbl	100.00 gal	100.00 gal
U066	2.00 gal/bbl	100.00 gal	100.00 gal

Tail			
72 sks Class H + 0.2% D046 + 0.2% D065 + 0.2% D167 + 0.6% D800			
Sacks Of:	CEMEN	Total	
	T	Blend/Cem:	6,768.00 lb
Sack Weight:	94.00 lb	Dry Blend Code:	
Yield:	1.19 ft3/sk	Base Fluid Den:	
Mix Water:	5.21 gal/sk	Volume:	
Mix Fluid:	5.21 gal/sk	Base Fluid Vol:	
Mix Water Den:	8.33 lb/gal	Acid Volume:	
Sacks Blend/Cem:	72.00 sks	Acid Conc:	
Total Mix Water:	1.42 m3		
Total Mix Fluid:	1.42 m3		
Code	Conc	Total	Adjusted Total
D909	94.00 lb/sk	6,580.00 lb	6,580.00 lb
D046	0.20 %	13.16 lb	13.16 lb
D065	0.20 %	13.16 lb	13.16 lb
D167	0.20 %	13.16 lb	13.16 lb
D800	0.60 %	39.48 lb	39.48 lb

Customer Shell Oil Company				Job Number 247618			
Well Latigo Ranch 3-3		Location (legal)		Schlumberger Location Hobbs		Job Start Jun/15/2009	
Field Latigo Ranch		Formation Name/Type		Deviation		Well MD 14247.0 ft	
County Guadalupe		State/Province New Mexico		Bit Size		Well TVD 14247.0 ft	
Well Master 0631107819		API/UWI		BHP		BHST	
Rig Name		Drilled For Gas		Service Via Land		BHCT	
Offshore Zone		Well Class New		Well Type New Well Completion		Pore Press. Gradient	
Drilling Fluid Type		Max. Density		Plastic Viscosity			
Service Line Cementing		Job Type Cem Prod Casing					
Max. Allowed Tubing Press 2600 psi		Max. Allowed Ann. Press		Wellhead Connection			
Casing/Liner							
Depth, ft		Size, in		Weight, lb/ft		Grade	
14240.0		4.500		13.5		P110	
0.0		0.000		0.0			
Tubing/Drill Pipe							
Depth,		Size,		Weight,		Grade	
Perforations/Open Hole							
Top,		Bottom,		No. of Shots		Total Interval	
						Diameter	
Treat Down Casing		Displacement 212.0 bbl		Packer Type		Packer Depth	
Tubing Vol.		Casing Vol. 212.0 bbl		Annular Vol. 333.0 bbl		Openhole Vol. 338.0 bbl	
Casing/Tubing Secured ☒		1 Hole Volume Circulated prior to Cement ☐		Casing Tools		Squeeze Job	
Lift Pressure 2100 psi		Shoe Type Guide		Shoe Depth 14247.0 ft		Squeeze Type	
Pipe Rotated ☐		Pipe Reciprocated ☐		Tool Type		Tool Depth	
No Centralizers		Top Plugs 1		Bottom Plugs 1		Tail Pipe Size	
Head Type Single		Stage Tool Type		Stage Tool Depth		Tail Pipe Depth	
Job Scheduled For Jun/15/2009		Arrived on Location Jun/15/2009		Leave Location Jun/15/2009		Collar Type Float	
						Collar Depth 14246.0 ft	
						Sqz. Total Vol.	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
06/15/2009	07:30:53					Started Acquisition	
06/15/2009	07:31:03	34	0.0	8.32	0.0		
06/15/2009	07:31:12					Sign Auth.	
06/15/2009	07:31:12	33	0.0	8.32	0.0		
06/15/2009	07:31:22					Clear Lines	
06/15/2009	07:31:22	34	0.0	8.32	0.0		
06/15/2009	07:31:34					Test Lines 4500 PSI	
06/15/2009	07:31:34	34	0.0	8.32	0.0		
06/15/2009	07:31:47					Prime Pump	
06/15/2009	07:31:47	34	0.0	8.32	0.0		
06/15/2009	07:35:53	34	0.0	8.32	0.0		
06/15/2009	07:40:53	33	0.0	8.32	0.0		
06/15/2009	07:45:53	34	0.0	8.32	0.0		
06/15/2009	07:50:53	33	0.0	8.32	0.0		
06/15/2009	07:55:53	34	0.0	8.32	0.0		
06/15/2009	08:00:53	34	0.0	8.32	0.0		
06/15/2009	08:05:53	33	0.0	8.32	0.0		
06/15/2009	08:10:53	33	0.0	8.32	0.0		
06/15/2009	08:15:53	33	0.0	8.32	0.0		
06/15/2009	08:20:53	34	0.0	8.32	0.0		
06/15/2009	08:25:53	33	0.0	8.32	0.0		
06/15/2009	08:30:53	33	0.0	8.32	0.0		

Well			Field	Job Start		Customer	Job Number
Latigo Ranch 3-3			Latigo Ranch	Jun/15/2009		Shell Oil Company	247618
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
06/15/2009	08:35:53	33	0.0	8.32	0.0		
06/15/2009	08:40:53	32	0.0	8.32	0.0		
06/15/2009	08:45:53	33	0.0	8.32	0.0		
06/15/2009	08:50:53	33	0.0	8.32	0.0		
06/15/2009	08:55:53	34	0.0	8.32	0.3		
06/15/2009	09:00:53	34	0.2	8.32	0.7		
06/15/2009	09:05:53	34	0.0	8.32	0.8		
06/15/2009	09:10:53	34	0.0	8.32	0.8		
06/15/2009	09:15:53	35	0.0	8.32	0.8		
06/15/2009	09:20:53	35	0.0	8.32	0.8		
06/15/2009	09:25:53	34	0.0	8.32	0.8		
06/15/2009	09:30:53	34	0.0	8.32	0.8		
06/15/2009	09:35:53	34	0.0	8.32	0.8		
06/15/2009	09:37:39					Start Mix Mud Push II At 10:00 AM NM Time	
06/15/2009	09:37:39	35	0.0	8.32	0.8		
06/15/2009	09:40:53	34	0.0	8.32	0.8		
06/15/2009	09:45:53	33	0.0	8.32	0.8		
06/15/2009	09:49:07					End Batch Mud Push II At 10:45 AM NMTime	
06/15/2009	09:49:07	34	0.0	8.32	0.8		
06/15/2009	09:49:36					Have Pump Safety Meeting	
06/15/2009	09:49:36	34	0.0	8.32	0.8		
06/15/2009	09:50:53	34	0.0	8.32	0.8		
06/15/2009	09:55:53	35	0.0	8.32	0.8		
06/15/2009	10:00:53	35	0.0	8.32	0.8		
06/15/2009	10:05:53	35	0.0	8.32	0.8		
06/15/2009	10:10:53	35	0.0	8.32	0.8		
06/15/2009	10:15:53	36	0.0	8.32	0.8		
06/15/2009	10:20:53	36	0.0	8.32	0.8		
06/15/2009	10:25:53	36	0.0	8.32	0.8		
06/15/2009	10:30:53	36	0.0	8.32	0.8		
06/15/2009	10:35:53	35	0.0	8.32	0.8		
06/15/2009	10:40:53	99	0.0	8.27	0.8		
06/15/2009	10:45:53	670	4.5	8.31	6.2		
06/15/2009	10:50:53	1071	6.2	10.02	37.5		
06/15/2009	10:51:24					Start Pump At 11:50 AM NM Time	
06/15/2009	10:51:24	1083	6.2	10.03	40.7		
06/15/2009	10:51:34					Break Circulation	
06/15/2009	10:51:34	1030	6.4	10.04	41.8		
06/15/2009	10:51:53					Drop Bottom Plug	
06/15/2009	10:51:53	1058	6.2	10.12	43.8		
06/15/2009	10:52:10					Pump 20 BBLs F/W Spacer Ahead	
06/15/2009	10:52:10	955	6.4	10.02	45.6		
06/15/2009	10:52:40					Start Pump 50 BBLs Mud Push II	
06/15/2009	10:52:40	1029	6.4	9.98	48.7		
06/15/2009	10:53:33					Very Good Circulation At Surface	
06/15/2009	10:53:33	1009	6.2	9.99	54.3		
06/15/2009	10:54:04					6.4 BPM At 1000 PSI	
06/15/2009	10:54:04	993	6.4	9.99	57.6		
06/15/2009	10:55:53	900	6.2	9.90	69.0		
06/15/2009	10:56:39					Reset Total, Vol = 73.85 bbl	
06/15/2009	10:56:39	896	6.2	8.27	73.9		
06/15/2009	10:57:00					Start 20 BBLs F/W Spacer	
06/15/2009	10:57:00	927	6.2	8.32	2.2		
06/15/2009	10:59:56					Reset Total, Vol = 20.72 bbl	
06/15/2009	10:59:56	912	6.2	8.31	20.7		

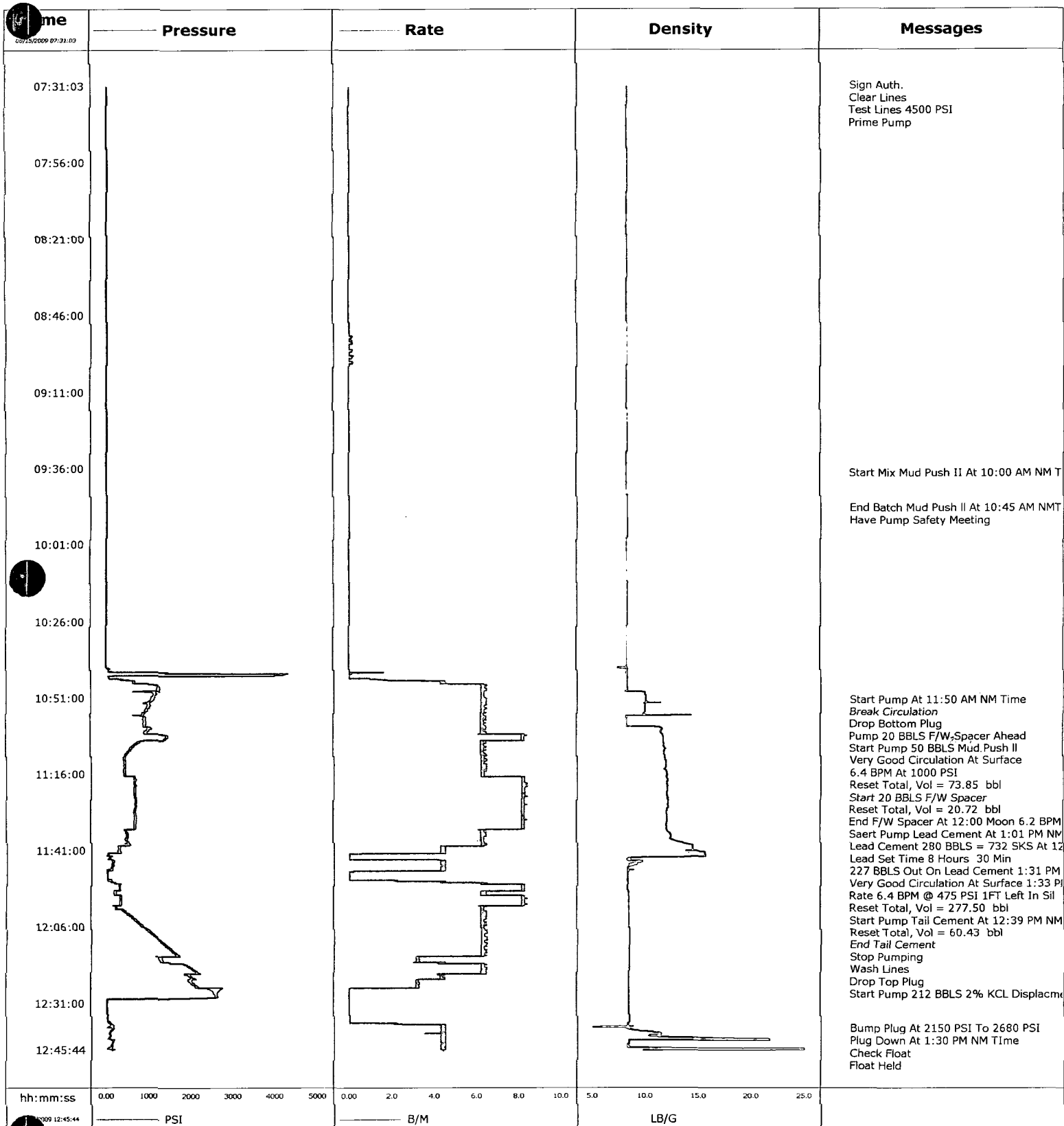
Well	Latigo Ranch 3-3		Field	Latigo Ranch		Job Start	Jun/15/2009		Customer	Shell Oil Company		Job Number	247618	
Date	Time 24-hr clock	Treating Pressure PSI		Flow Rate B/M	Density LB/G		Volume BBL		Message					
06/15/2009	11:00:34								End F/W Spacer At 12:00 Noon 6.2 BPM At 1025 PSI					
06/15/2009	11:00:34	1002		6.4	11.61		4.0							
06/15/2009	11:00:53	1005		6.5	11.65		6.0							
06/15/2009	11:01:20								Saert Pump Lead Cement At 1:01 PM NM Time At 12.0 PPG					
06/15/2009	11:01:20	1025		6.4	11.57		8.8							
06/15/2009	11:03:57								Lead Cement 280 BBLs = 732 SKS At 12.0 PPG					
06/15/2009	11:03:57	1391		8.2	11.75		28.1							
06/15/2009	11:04:28								Lead Set Time 8 Hours & 30 Min					
06/15/2009	11:04:28	1346		7.9	11.75		32.3							
06/15/2009	11:05:53	724		6.2	11.83		41.3							
06/15/2009	11:10:53	453		6.4	11.85		72.8							
06/15/2009	11:15:53	453		6.4	12.05		104.4							
06/15/2009	11:20:53	680		8.2	12.04		144.3							
06/15/2009	11:25:53	701		8.2	12.18		185.2							
06/15/2009	11:30:53	722		8.2	12.09		226.1							
06/15/2009	11:32:39								227 BBLs Out On Lead Cement 1:31 PM 8 BPM At 708 PSI					
06/15/2009	11:32:39	678		8.2	12.03		240.6							
06/15/2009	11:33:45								Very Good Circulation At Surface 1:33 PM NM Time					
06/15/2009	11:33:45	443		6.1	12.05		249.5							
06/15/2009	11:35:45								Rate 6.4 BPM @ 475 PSI 1FT Left In Sil					
06/15/2009	11:35:45	512		6.4	12.43		262.1							
06/15/2009	11:35:53	494		6.2	12.45		263.0							
06/15/2009	11:38:11								Reset Total, Vol = 277.50 bbl					
06/15/2009	11:38:11	522		6.4	13.48		277.5							
06/15/2009	11:39:37								Start Pump Tail Cement At 12:39 PM NM Time At 15.6 PPG					
06/15/2009	11:39:37	293		4.5	14.44		8.2							
06/15/2009	11:40:53	294		4.5	14.61		13.8							
06/15/2009	11:45:53	154		4.4	8.56		27.1							
06/15/2009	11:50:53	123		4.4	8.33		35.7							
06/15/2009	11:54:13								Reset Total, Vol = 60.43 bbl					
06/15/2009	11:54:13	218		6.4	8.44		60.4							
06/15/2009	11:54:23								End Tail Cement					
06/15/2009	11:54:23	215		6.2	8.44		1.0							
06/15/2009	11:54:29								Stop Pumping					
06/15/2009	11:54:29	229		6.4	8.44		1.7							
06/15/2009	11:54:38								Wash Lines					
06/15/2009	11:54:38	233		6.4	8.44		2.6							
06/15/2009	11:54:55								Drop Top Plug					
06/15/2009	11:54:55	214		6.2	8.44		4.4							
06/15/2009	11:55:38								Start Pump 212 BBLs 2% KCL Displacement					
06/15/2009	11:55:38	360		8.3	8.46		9.2							
06/15/2009	11:55:53	347		8.2	8.46		11.3							
06/15/2009	12:00:53	466		6.5	8.44		48.1							
06/15/2009	12:05:53	917		6.2	8.44		79.7							
06/15/2009	12:10:53	1343		6.4	8.44		111.2							
06/15/2009	12:15:53	1269		3.3	8.44		141.2							
06/15/2009	12:20:53	2208		6.2	8.44		167.7							
06/15/2009	12:25:53	2735		0.0	8.44		186.6							
06/15/2009	12:30:53	33		0.0	8.45		186.6							
06/15/2009	12:35:53	36		0.0	8.45		186.6							
06/15/2009	12:38:53								Bump Plug At 2150 PSI To 2680 PSI					
06/15/2009	12:38:53	150		4.5	8.49		194.4							
06/15/2009	12:39:25								Plug Down At 1:30 PM NM Time					
06/15/2009	12:39:25	116		4.3	9.04		196.7							
06/15/2009	12:39:38								Check Float					

Well			Field		Job Start		Customer		Job Number	
Latigo Ranch 3-3			Latigo Ranch		Jun/15/2009		Shell Oil Company		247618	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message				
06/15/2009	12:39:38	96	4.5	9.83	197.7					
06/15/2009	12:39:45					Float Held				
06/15/2009	12:39:45	94	4.3	10.32	198.2					
06/15/2009	12:40:53	89	4.4	11.41	203.2					
06/15/2009	12:43:25					Top Cement 12760'				
06/15/2009	12:43:25	156	4.5	8.44	214.5					
06/15/2009	12:43:32					End Job				
06/15/2009	12:43:32	155	4.4	8.46	215.0					
06/15/2009	12:45:32					Stopped Acquisition				
06/15/2009	12:45:32	168	4.4	25.00	223.9					
06/15/2009	12:45:42					Started Acquisition				
06/15/2009	12:45:42	152	4.4	17.61	223.9					
06/15/2009	12:45:47					Stopped Acquisition				

Post Job Summary

Average Pump Rates,				Volume of Fluid Injected, bbl			
Slurry	N2	Mud	Maximum Rate	Total Slurry 295.0	Mud	Spacer	N2
Treating Pressure Summary, psi				Breakdown Fluid			
Maximum 2680	Final 2680	Average 550	Bump Plug to 2680	Breakdown	Type	Volume	Density
Avg. N2 Percent	Designed Slurry Volume	Displacement 212.0 bbl	Mix Water Temp	Cement Circulated to Surface? ☐	Volume		
				Washed Thru Perfs ☐	To		
Customer or Authorized Representative George Stampley		Schlumberger Supervisor Ernest Cantu		Circulation Lost ☐	Job Completed ☒		
				-	-		

Well	#3-3	Client	Shell Oil Company
Field	Ladigo Ranch	SIR No.	247618
Engineer		Job Type	Cement 41/2 Production CSG
Country	United States	Job Date	06-15-2009





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		Grade K55		Thread 8RD					
Drilling Fluid Type		Max. Density 0 lb/gal		Plastic Viscosity cp		Depth, ft		Size, in		Weight, lb/ft			
Service Line Cementing		Job Type Cem Surface Casing				Grade		Thread					
Max. Allowed Tubing Pressure psi		Max. Allowed Ann. Pressure psi		Wellhead Connection 10 3/4 M&H&QC		Top, ft		Bottom, ft		spf			
Service Instructions Cement 1600' of 10 3/4" Surface Casing... 300 lbs of sugar for pits, LOU: 4900005296 Network Latigo #30084800						No. of Shots		Total Interval ft		Diameter in			
						Treat Down Casing		Displacement 142 bbl		Packer Type		Packer Depth ft	
						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			
Cement Head Type: Single						Stage Tool Depth: 0 ft		Tool Depth: 1250 ft					
Job Scheduled For:						Arrived on Location: 2009-Apr-10 13:00		Leave Location: 2009-Apr-11 20:30		Collar Type: Float			
						Collar Depth: 1454 ft		Tail Pipe Size: 0 in		Tail Pipe Depth: 0 ft			
								Sqz Total Vol: 0 bbl					
Date	Time	Treating Pressure psi	Flow Rate bbl/min	CMT DENS lb/gal	0	0	0	0	Message				
2009-Apr-11	16:21	-1	0.0	8.35	0	0	0	0					
2009-Apr-11	16:21								Sign Auth.				
2009-Apr-11	16:21	-1	0.0	8.35	0	0	0	0					
2009-Apr-11	16:21								Safety Meeting				
2009-Apr-11	16:21	-1	0.0	8.35	0	0	0	0					
2009-Apr-11	16:21								Clear Lines				
2009-Apr-11	16:21	-1	0.0	8.35	0	0	0	0					
2009-Apr-11	16:22								Test Lines 3500 PSI				
2009-Apr-11	16:22	-0	0.0	8.35	0	0	0	0					
2009-Apr-11	16:22								Break Circulation				
2009-Apr-11	16:22	-1	0.0	8.35	0	0	0	0					
2009-Apr-11	16:22	-1	0.0	8.35	0	0	0	0					
2009-Apr-11	16:22								Pump 20 BBLS F/W Spacer Ahead				
2009-Apr-11	16:26	2864	0.0	8.34	0	0	0	0					
2009-Apr-11	16:31	170	4.1	8.33	0	0	0	0					
2009-Apr-11	16:35								Reset Total, Vol = 36.91 bbl				
2009-Apr-11	16:35	270	6.2	11.41	0	0	0	0					
2009-Apr-11	16:36	312	6.2	11.35	0	0	0	0					
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	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	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 Latigo Ranch #3-3			Field		Service Date 09101-Apr-11		Customer SHELL OIL COMPANY		Job Number 2201758760	
Date	Time 24 hr clock	Treating Pressure psi	Flow Rate bbl/min	CMT DENS lb/gal	0	0	0	0	Message	
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	Float Held	
2009-Apr-11	18:05	1494	0.0	8.33	0	0	0	0	Test Casing To 1500 PSI For 30 Min.	
2009-Apr-11	18:05									
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 ☐ Washed Thru Perfs To 0 ft					
0 %	0 bbl	142 bbl	°F						
Customer or Authorized Representative Stampley, George			Schlumberger Supervisor Cantu, Ernest			☐ CirculationLost ☒ Job Completed			

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:	ft³/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:	ft³/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 ft³/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 ft³/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:	ft³/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	

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

