

# CEMENT JOB REPORT



<b>CUSTOMER</b> WHITING PETROLEUM CORP			<b>DATE</b> 20-JUN-12		<b>F.R. #</b> 1001917202		<b>SERV. SUPV.</b> CHRISTOPHER M MCKEON						
<b>LEASE &amp; WELL NAME</b> WILDHORSE #02-0224H - API 05123348880000			<b>LOCATION</b> 2-9N-59W			<b>COUNTY-PARISH-BLOCK</b> Weld Colorado							
<b>DISTRICT</b> Brighton			<b>DRILLING CONTRACTOR RIG #</b> CADE 21			<b>TYPE OF JOB</b> Long String							
<b>SIZE &amp; TYPE OF PLUGS</b>		<b>LIST-CSG-HARDWARE</b>		<b>MECHANICAL BARRIERS</b>		<b>MD</b>	<b>TVD</b>	<b>HANGER TYPES</b>		<b>MD</b>	<b>TVD</b>		
Cement Plug, Rubber, Top 7 in		Centralizer, with Pins, 7 in											
		Float Collar, Auto Fill, 7 - 8rd											
		Guide Shoe, Cement Nose, 7 in											
<b>MATERIALS FURNISHED BY BJ</b>				<b>LAB REPORT NO.</b>		<b>PHYSICAL SLURRY PROPERTIES</b>							
						<b>SACKS OF CEMENT</b>	<b>SLURRY WGT PPG</b>	<b>SLURRY YLD FT<sup>3</sup></b>	<b>WATER GPS</b>	<b>PUMP TIME HR:MIN</b>	<b>Bbl SLURRY</b>	<b>Bbl MIX WATER</b>	
Fresh Water						0	8.34	0	0	00:00	20		
Mud Clean I						0	8.34	0	0	00:00	20		
Fresh Water						0	8.34	0	0	00:00	20		
(35:65) Poz:G+LW6+.1%R3+1%FL25+.5%SMS+5%CSI				C06-061-12		371	10.5	2.64	8.86	08:37	174.24	78.28	
Fresh Water						0	8.34	0	0	00:00	237.46		
(35:65) Poz:G+LW6+1%FL25+.5%SMS+20%SS+5%CS				C06-061-12		98	10.5	3.12	10.49	09:56	54.44	24.48	
Available Mix Water 400 Bbl.				Available Displ. Fluid 400 Bbl.				<b>TOTAL</b>		526.14		102.76	
<b>HOLE</b>			<b>TBG-CSG-D.P.</b>					<b>COLLAR DEPTHS</b>					
<b>SIZE</b>	<b>% EXCESS</b>	<b>DEPTH</b>	<b>ID</b>	<b>OD</b>	<b>WGT.</b>	<b>TYPE</b>	<b>MD</b>	<b>TVD</b>	<b>GRADE</b>	<b>SHOE</b>	<b>FLOAT</b>	<b>STAGE</b>	
8.75	40	6441	6.184	7	29	CSG	6423	6125	L-80	6423	6381		
<b>LAST CASING</b>			<b>PKR-CMT RET-BR PL-LINER</b>			<b>PERF. DEPTH</b>		<b>TOP CONN</b>		<b>WELL FLUID</b>			
<b>ID</b>	<b>OD</b>	<b>WGT</b>	<b>TYPE</b>	<b>MD</b>	<b>TVD</b>	<b>BRAND &amp; TYPE</b>	<b>DEPTH</b>	<b>TOP</b>	<b>BTM</b>	<b>SIZE</b>	<b>THREAD</b>	<b>WGT.</b>	
8.9	9.63	36	CSG	1541	1541	No packer		0	0	7	8RD	9.7	
<b>DISPL. VOLUME</b>		<b>DISPL. FLUID</b>		<b>CAL. PSI</b>		<b>CAL. MAX PSI</b>		<b>OP. MAX</b>		<b>MAX TBG PSI</b>		<b>MAX CSG PSI</b>	
<b>VOLUME</b>	<b>UOM</b>	<b>TYPE</b>	<b>WGT.</b>	<b>BUMP PLUG</b>	<b>TO REV.</b>	<b>SQ. PSI</b>	<b>RATED</b>	<b>Operator</b>	<b>RATED</b>	<b>Operator</b>	<b>MIX WATER</b>		
237.0	BBLS	Fresh Water	8.34	265	0	0	0	0	6528	3000	Frac Tank		
<b>Circulation Prior to Job</b>													
Circulated Well: Rig <input checked="" type="checkbox"/> BJ <input type="checkbox"/>						Circulation Time: 1.5			Circulation Rate: 6 BPM				
Mud Density In: 9.7 LBS/GAL Mud Density Out: 9.7 LBS/GAL						PV & YP Mud In: 0			PV & YP Mud Out: 0				
Gas Present: NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> Units:						Solids Present at End of Circulation: NO <input checked="" type="checkbox"/> YES <input type="checkbox"/>							
<b>Displacement And Mud Removal</b>													
Displaced By: Rig <input type="checkbox"/> BJ <input checked="" type="checkbox"/>						Amount Bled Back After Job: 1.5 BBLS							
Returns During Job: <input type="checkbox"/> NONE <input type="checkbox"/> PARTIAL <input checked="" type="checkbox"/> FULL						Method Used to Verify Returns: Visual							
Cement Returns at Surface: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO						Were Returns Planned at Surface: <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES							
Pipe Movement: <input type="checkbox"/> ROTATION <input type="checkbox"/> RECIPROCATION <input checked="" type="checkbox"/> NONE <input type="checkbox"/> UNABLE DUE TO STUCK PIPE													
Centralizers: <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES						Quantity: 15		Type: <input checked="" type="checkbox"/> BOW <input type="checkbox"/> RIGID					
Job Pumped Through: <input type="checkbox"/> CHOKE MANIFOLD <input type="checkbox"/> SQUEEZE MANIFOLD <input checked="" type="checkbox"/> MANIFOLD <input type="checkbox"/> NO MANIFOLD													
<b>Plugs</b>													
Number of Attempts by BJ: 0						Competition: 0		Wiper Balls Used: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES		Quantity:			
Plug Catcher Used: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES						Parabow Used: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES							
Was There a Bottom: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES						Top of Plug: 0 FT			Bottom of Plug: 0 FT				
<b>Squeezes (Update Original Treatment Report for Primary Job)</b>													
BLOCK SQUEEZE <input type="checkbox"/> SHOE SQUEEZE <input type="checkbox"/> TOP OF LINER SQUEEZE <input type="checkbox"/> PLANNED <input type="checkbox"/> UNPLANNED <input type="checkbox"/>													
Liner Packer: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES						Bond Log: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES		PSI Applied: 0		Fluid Weight: 0 LBS/GAL			
<b>Casing Test (Update Original Treatment Report for Primary Job)</b>													
Casing Test Pressure: 2000 PSI						With 9.7 LBS/GAL Mud		Time Held: 00 Hours 30 Minutes					



# CEMENT JOB REPORT



## Shoe Test (Update Original Treatment Report for Primary Job)

Depth Drilled out of Shoe: 0 FT Target EMW: 0 LBS/GAL Actual EMW: 0 LBS/GAL  
 Number of Times Tests Conducted: 0 Mud Weight When Test was Conducted: 0 LBS/GAL

Problems Before Job (I.E. Running Casing, Circulating Well, ETC)  
 NA

Problems During Job (I.E. Lost Returns, Equipment Failure, Bulk Delivery, Foaming, ETC)  
 Float did not hold. Shut in manifold with 558 psi.

Problems After Job (I.E. Gas at Surface, Float Equipment Failed, ETC)  
 NA

EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING: NA

PRESSURE/RATE DETAIL						EXPLANATION	
TIME HR:MIN.	PRESSURE - PSI		RATE BPM	Bbl. FLUID PUMPED	FLUID TYPE	SAFETY MEETING: BJ CREW <input checked="" type="checkbox"/> CO. REP. <input checked="" type="checkbox"/>	
	PIPE	ANNULUS				TEST LINES	4730 PSI
						CIRCULATING WELL - RIG	<input checked="" type="checkbox"/> BJ <input type="checkbox"/>
06:05	0	0	0	0	NA	Arrive location	
08:30	0	0	0	0	NA	Casing crew rigs down/ rig circulates	
08:50	0	0	0	0	NA	Spot trucks	
09:00	0	0	0	0	NA	Rig up safety meeting	
10:00	0	0	0	0	NA	Pre job safety meeting	
10:18	1364	0	0	0	H2O	Low pressure test	
10:19	4730	0	0	0	H2O	High pressure test	
10:22	541	0	7.2	20	H2O	Fresh water	
10:25	600	0	7.2	20	H2O	Mud Clean I	
10:28	654	0	7.2	20	H2O	Fresh water	
10:30	243	0	6	173	CMT	Batch up, weigh and pump 371 sx. ULW 35/65 Poz (Fly Ash) Class G Cement + 0.06 lbs/sack Static Free + 0.1% R-3 + 46.46% LW-6 + 1% FL-25 + 0.5% SM + 5% CSE-2 @ 10.5 ppg	
11:07	144	0	6	54	CMT	Batch up, weigh and pump 98 sx. ULW 35/65 Poz (Fly Ash) Class G Cement + 0.06 lbs/sack Static Free + 54.44% LW-6 + 1% FL-25 + 0.5% SM + 20% Silica Sand, 100 mesh, sacked + 5% CSE-2 @ 10.5 ppg.	
11:20	0	0	0	0	NA	Drop plug	
11:35	56	0	4.8	10	H2O	Start displacement	
11:37	645	0	7.2	130	MUD	Rate change	
11:57	806	0	6	50	MUD	Rate change	
12:08	864	0	4.8	30	MUD	Rate change	
12:15	728	0	3.6	10	H2O	Rate change	
12:18	712	0	2.4	7	H2O	Rate change	
12:22	786	0	2.4	237	H2O	Bump plug	
12:25	1811	0	0	0	NA	Check floats/ not holding	
12:26	2476	0	2.4	2.5	H2O	Bump plug/ Check floats, not holding.	
12:36	2012	0	1.5	2.5	H2O	Bump plug/ Start Casing Test	
13:09	2029	0	0	0	NA	End Casing Test	
13:13	558	0	0	0	NA	Shut in manifold with 558 psi	
13:15	0	0	0	0	NA	Rig down safety meeting	

BUMPED PLUG <input type="checkbox"/> Y <input type="checkbox"/> N	PSI TO BUMP PLUG 786	TEST FLOAT EQUIP. <input type="checkbox"/> Y <input type="checkbox"/> N	BBL.CMT RETURNS/ REVERSED 39	TOTAL BBL. PUMPED 524	PSI LEFT ON CSG 558	SPOT TOP OUT CEMENT <input type="checkbox"/> Y <input type="checkbox"/> N	Service Supervisor Signature:
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