

CEMENT JOB REPORT



CUSTOMER ANADARKO PETROLEUM COI				DATE 02-OCT-14		F.R. # 10011104782				SERV. SUPV. JOHN R WUDARCZYK				
LEASE & WELL NAME UPRR 50 PAN AM D #7 - API 05123126770000				LOCATION 3-1N-66W				COUNTY-PARISH-BLOCK Weld Colorado						
DISTRICT Brighton				DRILLING CONTRACTOR RIG # WO				TYPE OF JOB Plug & Abandon						
SIZE & TYPE OF PLUGS		LIST-CSG-HARDWARE		MECHANICAL BARRIERS		MD	TVD	HANGER TYPES		MD	TVD			
		No Shoe												
		NA-P&A												
MATERIALS FURNISHED BY BJ				LAB REPORT NO.				PHYSICAL SLURRY PROPERTIES						
								SACKS OF CEMENT	SLURRY WGT PPG	SLURRY YLD FT³	WATER GPS	PUMP TIME HR:MIN	Bbl SLURRY	Bbl MIX WATER
Plug Slurry								30	15.8	1.15	4.95		6	3.44
Fresh Water								0	8.34	0	0	00:00	25	
Fresh Water								0	8.34	0	0	00:00	10	
Mud Clean II								0	8.5	0	0	00:00	10	
Fresh Water								0	8.34	0	0	00:00	5	
Plug Slurry								280	14.8	1.33	6.32		66.19	42.12
Fresh Water								0	8.34	0	0	00:00	3	
Available Mix Water 200 Bbl.				Available Displ. Fluid 150 Bbl.				TOTAL				125.19	45.56	
HOLE			TBG-CSG-D.P.						COLLAR DEPTHS					
SIZE	% EXCESS	DEPTH	ID	OD	WGT.	TYPE	MD	TVD	GRADE	SHOE	FLOAT	STAGE		
5.5	10	1680	4.892	5.5	17	CSG	4670	4670	N-80	0	0	0		
			2.441	2.875	6.5	TBG	4670	4670	N-80					
LAST CASING			PKR-CMT RET-BR PL-LINER			PERF. DEPTH			TOP CONN		WELL FLUID			
ID	OD	WGT	TYPE	MD	TVD	BRAND & TYPE	DEPTH	TOP	BTM	SIZE	THREAD	TYPE	WGT.	
						CEMENT RETAINER	1210			2.875	8RND	WATER BASED	8.4	
DISPL. VOLUME		DISPL. FLUID		CAL. PSI	CAL. MAX PSI	OP. MAX	MAX TBG PSI		MAX CSG PSI		MIX WATER			
VOLUME	UOM	TYPE	WGT.	BUMP PLUG	TO REV.	SQ. PSI	RATED	Operator	RATED	Operator				
25	BBLS	Fresh Water	8.34	0	0	0	8456	2500	5024	2500	TRANSPORT			
		Fresh Water	8.34											
Circulation Prior to Job														
Circulated Well: Rig <input checked="" type="checkbox"/> BJ <input type="checkbox"/>						Circulation Time: 1			Circulation Rate: 3 BPM					
Mud Density In: 8.4 LBS/GAL Mud Density Out: 8.4 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"/>								
Displacement And Mud Removal														
Displaced By: Rig <input type="checkbox"/> BJ <input checked="" type="checkbox"/>						Amount Bled Back After Job: 0 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 type="checkbox"/> YES <input checked="" type="checkbox"/> NO						Were Returns Planned at Surface: <input checked="" type="checkbox"/> NO <input 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 checked="" type="checkbox"/> NO <input type="checkbox"/> YES						Quantity:			Type: <input type="checkbox"/> BOW <input type="checkbox"/> RIGID					
Job Pumped Through: <input type="checkbox"/> CHOKE MANIFOLD <input type="checkbox"/> SQUEEZE MANIFOLD <input type="checkbox"/> MANIFOLD <input checked="" type="checkbox"/> NO MANIFOLD														
Plugs														
Number of Attempts by BJ: 1 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: 4411 FT			Bottom of Plug: 4670 FT					
Squeezes (Update Original Treatment Report for Primary Job)														
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					
EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING: NONE														

CEMENT JOB REPORT



Casing Test (Update Original Treatment Report for Primary Job)

Casing Test Pressure: 0 PSI With 0 LBS/GAL Mud Time Held: 00 Hours 00 Minutes

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)
NONE

Problems During Job (I.E. Lost Returns, Equipment Failure, Bulk Delivery, Foaming, ETC)
NONE

Problems After Job (I.E. Gas at Surface, Float Equipment Failed, ETC)
NONE

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	3403 PSI	
						CIRCULATING WELL - RIG <input checked="" type="checkbox"/> BJ <input type="checkbox"/>		
09:15	0	0	0	0	0	ARRIVE ON LOCATION (16 MILES)		
09:30	0	0	0	0	0	PRE RIG UP SAFETY MEETING		
10:10	0	0	0	0	0	PRE JOB MEETING		
10:20	3403	0	0	0	H2O	PRESSURE TEST PUMPS AND LINES		
10:25	284	0	2.5	10	H2O	FRESH WATER		
10:35	151	0	2.4	6	CMT	BATCH UP AND PUMP 30 SKS CLASS G+.4%CD-32+.4%ASA-301@15.8# (PLUG FROM 4411-4670)		
10:43	300	0	2.8	25	H2O	DISPLACE		
10:53	0	0	0	0	H2O	SHUT DOWN / WASH UP		
11:00	0	0	0	0	0	RIG PULLING TUBING / WAITING ON WIRELINE TO PREP FOR 2ND STAGE		
13:40	760	0	1.3	10	H2O	MUD CLEAN II		
13:54	0	0	0	0	H2O	SHUT DOWN, CIRCULATION NOT ESTABLISHED, RIG TAKES OVER TO CIRCULATE		
14:17	725	0	2.8	5	H2O	FRESH WATER		
14:25	963	0	2.3	65	CMT	BATCH UP AND PUMP 280 SKS TYPE III+.25#/SACK CELLO FLAKE @ 14.8# FROM 737'-1680'		
15:05	45	0	1.3	3	H2O	DISPLACE		
15:08	0	0	0	0	H2O	SHUT DOWN / WASH UP		
15:20	0	0	0	0	0	POST JOB RIG DOWN SAFETY MEETING		

BUMPED PLUG	PSI TO BUMP PLUG	TEST FLOAT EQUIP.	BBL.CMT RETURNS/ REVERSED	TOTAL BBL. PUMPED	PSI LEFT ON CSG	SPOT TOP OUT CEMENT	Service Supervisor Signature:
Y <input checked="" type="checkbox"/> N	0	Y <input checked="" type="checkbox"/> N	0	124	0	Y <input checked="" type="checkbox"/> N	

BISON OIL WELL CEMENTING, INC.

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INVOICE #
LOCATION
FOREMAN

12/E1
31-14
KIL

Treatment Report Page 2

DESCRIPTION OF JOB EVENTS

Safety Meeting MIRU CIRCULATE Drop Plug	9:58am 8:30am 10:07am	Displace 1			Displace 2			Displace 3			Displace 4			Displace 5			Displace 5		
		BBLS	Time	PSI	BBLS	Time	PSI	BBLS	Time	PSI	BBLS	Time	PSI	BBLS	Time	PSI	BBLS	Time	PSI
		0			0			0			0			0			0		
		10			10			10			10			10			10		
		20			20			20			20			20			20		
		30			30			30			30			30			30		
		40			40			40			40			40			40		
M & P		50			50			50			50			50			50		
Time	Sacks	60			60			60			60			60			60		
10:09 am	152	70			70			70			70			70			70		
		80			80			80			80			80			80		
		90			90			90			90			90			90		
		100			100			100			100			100			100		
		110			110			110			110			110			110		
		120			120			120			120			120			120		
		130			130			130			130			130			130		
		140			140			140			140			140			140		
		150			150			150			150			150			150		

Notes:

circ 10 BBLs H2O

cemented 152 sks cement 40.3 BBLs slurry

no Displacement

X

Work Preformed

X

Title

X 10-3-14
Date

BISON OILWELL CEMENTING JOB SAFETY ANALYSIS WORKSHEET

ASK: Plug and Abandon		CEMENTER/SUPERVISOR: Kirk Kallhoff		PAGE 1	OF 3
NAME: uprr 50-pan am-d#7		RIG # ensign 320	LOCATION:31-14	DATE:10-3-14	
ATOR: anadarko		CONSULTANT: logan		INVOICE # 12181	
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> EQUIRED: <input type="checkbox"/> Hard Hat <input type="checkbox"/> Safety Glasses <input type="checkbox"/> Steel Toe Boots <input type="checkbox"/> Impact Gloves </div> <div style="width: 45%;"> ADDITIONAL PPE (based on job specific hazards) <input type="checkbox"/> FR Coveralls <input type="checkbox"/> Reflective Vest </div> <div style="width: 45%;"> <input type="checkbox"/> Goggles <input type="checkbox"/> Faceshield <input type="checkbox"/> Chemical Resistant Gloves <input type="checkbox"/> Chemical Resistant Clothing </div> <div style="width: 45%;"> <input type="checkbox"/> Air Purifying Respirator <input type="checkbox"/> Supplied Air Respirator <input type="checkbox"/> Personal H2S Monitor <input type="checkbox"/> Personal Methane Monitor </div> </div>					
JOB STEPS		POTENTIAL HAZARDS	RECOMMENDED ACTION OR PROCEDURE	REVIEWED BY	
iew JSA		Misunderstanding	Clarify job and associated hazards and safety concerns	kk	
iduct pre job safety meeting		Misunderstanding	-Hold safety meeting with all personnel on location, ensure everyone pays attention to ensure they understand their role and responsibility during the job -Review treatment report with consultant and attain signature for authorization to proceed -Identify and address short service employees (SSE) who are on location -Verify method of relaying hand signals to rig crew for shutting down mud pump	kk	
ve trucks in and rig up equipment		Other traffic on location, overhead lines, pinch points, heavy lifting, slips/falls	-Coordinate with well site supervisor for directions on where and when to park the equipment -All Bison crew members walk the location prior to driving in to access specific hazards -Utilize spotters when trucks are in motion -Establish buffer zone around equipment utilizing cones and caution tape -Cementer follows up to ensure connections are secure -Lift with your legs and use teamwork when rigging up -Utilize reflective vests and wands to increase visibility at night -Deploy spill berms and buckets -Verify connections on mudline for compatibility	kk	
se hose to rig floor		Overhead work, improper hook up/load not properly secured, miscommunication between ground personnel and the crane/tugger operator	Inspect chains, slings, hooks prior to lift -Ensure line of sight with crane/tugger operator is maintained throughout the lift and hand signals are clarified before the lift. -Ensure no personnel are under suspended loads -Utilize tag line	kk	
ach swage to tubing/Connect to swage on pipe		Connections/equipment failing under pressure, spills, slips and falls	-Insure swage has proper pressure rating for the job and falls within the parameters of the <i>Bison Oilwell Cementing Iron Inspection Program</i> -Verify the compatibility of the connections on a swage/pin provided by the rig -Minimize number of people on rig floor, utilize Bison person nel to attach cement lines -Be aware of surroundings when swinging a hammer	kk	
ssure test lines	Test to: PSI- 1000 Maximum pressure allowed for job: PSI- 2000	Equipment failing under high pressures	-Ensure rig floor is clear and personnel are away from hoses prior to test -Establish buffer area around high pressure hoses -Lines are checked from a distance and using pressure gauges -Cementer ensures pressure gauges are working properly	Pressure relief valve set to: PSI- 2000 Max. pump pressure: PSI- 3000	kk

BISON OILWELL CEMENTING JOB SAFETY ANALYSIS WORKSHEET

np Spacer/Mix and Pump ment	Serious injury from high pressure line failure or catastrophic equipment failure. Burns or skin irritation from splashing cement , uncontrolled spills	-Pressure test prior to job, utilize heavy duty hose hobbles and pressure relief valve -Keep rig floor and buffer area clear while pumping -Utilize proper PPE -Have access to water to rinse affected skin -Deploy spill berms and buckets	kk
placement	Unexpected pressure associated with resuming of pumping, serious injury from high pressure line failure catastrophic equipment failure, spills , overpressure of mudlines	-Ensure rig floor remains clear and non-essential personnel stay clear from buffer area -Pump operator monitors pump pressure constantly -Utilize proper PPE -During displacement ensure one mudline valve is always open -Review method of relaying hand signals to rig crew to engage/disengage mud pumps	kk
T STEPS 7 AND 8 AS REQUIRED			
sh up / rig down	Splashing cement slurry, heavy lifting, pinch points, unsecured hoses	-Utilize stakes or portable tank manifold to secure hoses -Use proper lifting technique (2 man lift, lift with legs, plan your route)	kk
part location	Other traffic and personnel and location, overhead lines	-All Bison crew member walk the planned exit route to access possible obstacles and hazards -Utilize spotters while backing	kk
General Precautions/Stop Work -If you see a leaking connection, notify the cementer. Do not attempt to hammer up a leaking connection as there may be pressure on the lines. - Any person on location, regardless of their position or experience level has the authority and responsibility to stop the job if they witness an unsafe act or condition.			
R HAZARDS SPECIFIC TO LOCATION OR ONMENT NOT ADDRESSED ABOVE:			
NATED EMERGENCY MUSTER AREA: access rd		NEAREST EMERGENCY MEDICAL FACILITY (OTHER THAN 911): brighton	
D COUNT-			