



CEMENTERS, INC.

P. O. BOX 302
FARMINGTON, NEW MEXICO 87499

CEMENT JOB DETAIL SHEET

CUSTOMER Meridian			DATE Feb. 1 - 1997		F.R. #		SER. SUP. Chip		TYPE JOB P&A									
LEASE & WELL NAME - OCSG Hakuna Metata #1			LOCATION D-16-20P-4W			COUNTY Sandoval, New Mexico												
DRILLING CONTRACTOR RIG # Four Corners #3			OPERATOR Jim Andes - Pusher															
MATERIAL FURNISHED		TYPE OF PLUGS		LIST CSG HARDWARE			SQ MANI FOLD Y N		TOP OF EACH FLUID		PHYSICAL SLURRY PROPERTIES							
		TOP BTM									SLURRY WEIGHT PPG	SLURRY YIELD FT ³	WATER GPS	PUMP TIME HR: MIN:	Bbl SLURRY	Bbl MIX WATER		
Plug #1		110 sy G neat		305'			160' DH				15.8	1.15	5.1		23	13		
Plug #2 & 3		125 sy G neat		325'			150' DH				15.8	1.15	5.1		26	15		
Plug #4		1 st time 82 sy G, 2% CaCl ₂ , Collo Hake		140'			120' DH				15.8	1.15	5.1		16	9 1/2		
		2 nd 35 sy G, 2%									15.8	1.15	5.1		7	4		
		3 rd 60 sy G, 2% CaCl ₂		140'							15.8	1.15	5.1		12 1/2	7		
Plug #5		41 sy G neat		100'							15.8	1.15	5.1		8	5		
Plug #6		45 sy G, 3% CaCl ₂		100'							15.8	1.15	5.1		9	5 1/2		
Available Mix Water		Bbl.		Available Displ. Fluid		Bbl.						TOTAL						
HOLE		TGB-CSG-D.P.		TGB-CSG-D.P.		COLLAR DEPTHS												
SIZE	% EXCESS	DEPTH	SIZE	WGT.	TYPE	DEPTH	SIZE	WGT.	TYPE	DEPTH	SHOE	FLOAT	STAGE					
8 3/4			4 1/2	16.6	XH	VARIED												
LAST CASING			PKR-CMT RET-BR PL-LINER			TOP CONN.			WELL FLUID									
SIZE	WGT.	TYPE	DEPTH	BRAND & TYPE			DEPTH	TOP	BTM	SIZE	THREAD	TYPE	WGT					
9 5/8	36		353															
CAL. DISPL. VOL. Bbl.			CAL. PSI			CAL. MAX. PSI			OP. MAX			MAX TGB PSI			MAX CSG PSI			
TGB.	CSG.	CSG.	TOTAL	BUMP PLUG	TO REV	SQ PSI	RATED			RATED			DISPL. FLUID			WATER SOURCE		
												TYPE			WGT			
												mud			8.8			

EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG., ETC., PRIOR TO CEMENTING: **no circulation, METAL PITS lots of cuttings, MUD MOVED OFF SITE @ 4:00pm Feb. 2, NOT ENOUGH MUD.**

PRESSURE RATE DETAIL						EXPLANATION	
TIME HR: MIN:	PRESSURE - PSI		RATE BPM	Bbl FLUID PUMPED	FLUID TYPE	SAFETY MEETING: CREW ☐ CO. REP. ☐	
	PIPE	ANNULUS				TEST LINES - PSI	
						CIRCULATING WELL RIG ☐ WPS ☐	
10:30 pm.						On location, logging, no circulation	
8:00	0	?	3	5	water	START WATER ahead	
8:05	0	1	3	23	CEMENT	START CEMENT	
8:13	0	1	3	2	water	start displacement water	
8:15	0		3		mud	start displacement mud - no circulation	
8:30	100					Sit down - pull pipe	
						Slight Flow back @ 1/4 Bpm est	
9:30	0	?	3	5	water	START WATER	
9:32	0	1	3		CEMENT	START CEMENT	
9:45	0	1	3	2	water	START WATER displacement - circulation	
9:47	0		3		mud	START mud displacement	
10:05	100	0	3			Sit down - pull pipe - Plug #2 & 3	
						Slight Flow back @ 1/8 Bpm est	
12:25	0	?	3	5	water	START WATER ahead - NO circulation	
12:30	0	1	3	16	CEMENT	START CEMENT - Plug #4	
12:38	0	1	3	2	water	START WATER displacement	
12:40	0	1	3	49	mud	START mud displacement	
1:00	300					Sit down (1 BBL Short) Holding 300psi	
1:00						Bleed off 2 BBL Flowing @ 1/2 Bpm pull pipe	
1:30						Pipe pulled - Annulus Full - not wanting cure	
3:10						Attempt to tag. Questionable (10 stds)	
						Leave pipe to set plug. 3938	
BUMPED PLUG	PSI TO BUMP PLUG	TEST FLOAT EQUIP.	TOTAL Bbl. PUMPED	Bbl. CMT RETURNS/ REVERSED	PSI LEFT ON CSG	SPOT TOP CEMENT	SER. SUP.
Y N		Y N					Chip Hutchinsen
						CUSTOMER REP.	
						Deenkingo; Jim Johnson	
N.M. State - Ernest Cardona							

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CUSTOMER Merrion	DATE Feb 1-4, 1997	F.R.# 	SER. SUP. Chip	TYPE JOB P&A										
LEASE & WELL NAME - OCSG Akuna Matata	LOCATION D-16-20N-4W	COUNTY Sandoval, New Mexico												
DRILLING CONTRACTOR RIG # Four Corners #3	OPERATOR Jim Andes - Pusher													
MATERIAL FURNISHED	TOP BTM	TYPE OF PLUGS	LIST CSG HARDWARE	SQ MANI FOLD Y N	TOP OF EACH FLUID	PHYSICAL SLURRY PROPERTIES								
						SLURRY WEIGHT PPG	SLURRY YIELD FT³	WATER GPS	PUMP TIME HR: MIN:	Bbl SLURRY	Bbl MIX WATER			
Plug # 7 20 sq G neat (30' - surf)						Surf	158	115	5.1		4	2 1/2		
Available Mix Water Bbl.						Available Displ. Fluid Bbl.		TOTAL						
HOLE			TBG-CSG-D.P.			TBG-CSG-D.P.			COLLAR DEPTHS					
SIZE	% EXCESS	DEPTH	SIZE	WGT.	TYPE	DEPTH	SIZE	WGT.	TYPE	DEPTH	SHOE	FLOAT	STAGE	
8 3/4														
LAST CASING			PKR-CMT RET-BR PL-LINER			PERF DPTH			TOP CONN.		WELL FLUID			
SIZE	WGT.	TYPE	DEPTH	BRAND & TYPE			DEPTH	TOP	BTM	SIZE	THREAD	TYPE	WGT	
9 5/8	36.0		353											
CAL. DISPL. VOL. Bbl.			CAL. PSI			CAL. MAX. PSI			OP. MAX SQ PSI			DISPL. FLUID		WATER SOURCE
TBG.	CSG.	CSG.	TOTAL	BUMP PLUG	TO REV	SQ PSI			RATED	OP	TYPE	WGT		
EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG., ETC., PRIOR TO CEMENTING:														
PRESSURE RATE DETAIL										EXPLANATION				
TIME HR: MIN:	PRESSURE - PSI		RATE BPM	Bbl FLUID PUMPED	FLUID TYPE	SAFETY MEETING: CREW ☐ CO. REP. ☐								
	PIPE	ANNULUS				TEST LINES PSI								
						CIRCULATING WELL RIG ☐ WPS ☐								
6:20	0	0	3	4	MUD	START 4 BBL MUD								
6:22	0	1	3	2	WATER	START @ 2 BBL water (washed tanks)								
6:25	0	1	3	7	CEMENT	START cement								
6:30	2200					Locked up 7 BBL cement								
6:40	2200					Attempt to surge								
6:50						Bleed off pull pipe wet Backside Sur								
3:00 am						Go get mud on Rig &								
12:00	0	0	3	2	WATER	START water ahead (circulating)								
12:05	1	1	3	12	CEMENT	START cement								
12:11	1	1	3	1	WATER	START WATER Displacement Plug # 4								
12:12	1	1	3	5 1/2	MUD	START mud displacement								
12:45	1	1				Shutdown - Balanced - Circ whole job								
12:46						Pull pipe wait								
3:15						TAG cement - pull pipe -								
11:30	0	0	3	8 1/2	cement	START cement - Plug # 5								
11:35	1	1	3	20 1/2	mud	START mud displacement								
11:40	1	1				Shutdown - Balanced - circulated								
11:49	1	1				Pull pipe								
BUMPED PLUG	PSI TO BUMP PLUG	TEST FLOAT EQUIP.	TOTAL Bbl. PUMPED	Bbl. CMT RETURNS/ REVERSED	PSI LEFT ON CSG	SPOT TOP CEMENT	SER. SUP. chip Nutchinson							
Y N		Y N					CUSTOMER REP. Dean Lingg - Jim Johnson							

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