CEMENT JOB REPORT

CUSTOMER Kerr McGee Corp	DATE 16-DEC-09	F.R. # 1001539742	SERV. SUPV. MURREL E TALBERT II
LEASE & WELL NAME HANSON LESLIE GAS UNIT #1 - API 051230859400	**LOCATION** Sec.30 - T3N - R64W		**COUNTY-PARISH-BLOCK** Weld Colorado
DISTRICT Brighton	**DRILLING CONTRACTOR RIG #** Work-Over		**TYPE OF JOB** Squeeze-Perforation

SIZE & TYPE OF PLUGS — LIST-CSG-HARDWARE — PHYSICAL SLURRY PROPERTIES

	SACKS OF CEMENT	SLURRY WGT PPG	SLURRY YLD FT^3	WATER GPS	PUMP TIME HR:MIN	Bbl SLURRY	Bbl MIX WATER
MATERIALS FURNISHED BY BJ							
Class "G" + adds	50	15.8	1.15	4.98	01:30	11.8	6.84
Fresh Water	0	8.34	0	0	00:00	20.4	
Fresh Water	0	8.34	0	0	00:00	60	
Premium Lite Cement + Adds	400	12.5	1.89	10.38	03:00	148	108.77

Available Mix Water **300** Bbl. Available Displ. Fluid **20.4** Bbl. **TOTAL** 240.2 | 115.61

HOLE / TBG-CSG-D.P. / COLLAR DEPTHS

HOLE			TBG-CSG-D.P.					COLLAR DEPTHS		
SIZE	% EXCESS	DEPTH	SIZE	WGT.	TYPE	DEPTH	GRADE	SHOE	FLOAT	STAGE
4.5	0	4780	4.5	11.6	CSG	4780	N-80			
			2.375	4.7	TBG	4490	N-80			

LAST CASING / PKR-CMT RET-BR PL-LINER / PERF. DEPTH / TOP CONN / WELL FLUID

LAST CASING				PKR-CMT RET-BR PL-LINER		PERF. DEPTH			TOP CONN		WELL FLUID	
SIZE	WGT	TYPE	DEPTH	BRAND & TYPE	DEPTH	TOP	BTM	SIZE	THREAD	TYPE		WGT.
				HD packer	4490	4779	4780	2.375	8 RD	WATER BASED MU		10

DISPL. VOLUME / DISPL. FLUID / CAL. PSI / CAL. MAX PSI / OP. MAX / MAX TBG PSI / MAX CSG PSI / MIX WATER

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	
20.4	BBLS	Fresh Water	8.34	0	0	3000	7000	3000	6224	3000	water truck

Circulation Prior to Job

Circulated Well: Rig [X] BJ [ ]		Circulation Time: 1	Circulation Rate: 2 BPM
Mud Density In: 0 LBS/GAL	Mud Density Out: 0 LBS/GAL	PV & YP Mud In: 0	PV & YP Mud Out: 0
Gas Present: NO [X] YES [ ] Units:		Solids Present at End of Circulation: NO [X] YES [ ]	

Displacement And Mud Removal

Displaced By: Rig [ ] BJ [X] — Amount Bled Back After Job: .25 BBLS

Returns During Job: [ ] NONE [ ] PARTIAL [ ] FULL — Method Used to Verify Returns: visually

Cement Returns at Surface: [ ] YES [X] NO — Were Returns Planned at Surface: [X] NO [ ] YES

Pipe Movement: [ ] ROTATION [ ] RECIPROCATION [X] NONE [ ] UNABLE DUE TO STUCK PIPE

Centralizers: [X] NO [ ] YES — Quantity: — Type: [ ] BOW [ ] RIGID

Job Pumped Through: [ ] CHOKE MANIFOLD [ ] SQUEEZE MANIFOLD [ ] MANIFOLD [ ] NO MANIFOLD

Plugs

Number of Attempts by BJ: 0 — Competition: 0 — Wiper Balls Used: [X] NO [ ] YES Quantity:

Plug Catcher Used: [X] NO [ ] YES — Parabow Used: [X] NO [ ] YES

Was There a Bottom: [X] NO [ ] YES — Top of Plug: 0 FT — Bottom of Plug: 0 FT

Squeezes (Update Original Treatment Report for Primary Job)

BLOCK SQUEEZE [ ] SHOE SQUEEZE [ ] TOP OF LINER SQUEEZE [ ] PLANNED [X] UNPLANNED [ ]

Liner Packer: [X] NO [ ] YES — Bond Log: [X] NO [ ] YES — PSI Applied: 1600 Fluid Weight: 15.8 LBS/GAL

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

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Problems Before Job (I.E. Running Casing, Circulating Well, ETC)
n/a

Problems During Job (I.E. Lost Returns, Equipment Failure, Bulk Delivery, Foaming, ETC)
n/a

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

EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING: n/a

TIME HR:MIN.	PRESSURE - PSI		RATE BPM	Bbl. FLUID PUMPED	FLUID TYPE	EXPLANATION
	PIPE	ANNULUS				
						SAFETY MEETING: BJ CREW [X] CO. REP. [X]
						TEST LINES 4500 PSI
						CIRCULATING WELL - RIG [X] BJ [ ]
10:00	0	0	0	0	NONE	arrive location
10:20	0	0	0	0	NONE	pump operator pre-rig up safety meeing
11:30	0	0	0	0	NONE	safety meeting
11:38	4500	0	0	0	H20	pressure test
11:41	700	0	1	6	H20	pre-flush
11:48	1700	0	1.5	34	H20	rate and pressure change
12:11	1900	0	2	20	H20	rate and pressure change
12:23	1600	0	1.6	120	CMT	batch up and pump lead slurry @12.5#(400 sks-premium lite cement+.4% FL-52+3% bentonite+99.5% fresh water)
13:44	1095	0	2.2	28	CMT	rate and pressure change on lead slurry@12.5#
14:00	680	0	1.1	11.8	CMT	pump tail slurry @15.8#(50 sks-Class G+44.2% fresh water)
14:10	0	0	0	0	NONE	shut down/wash up
14:14	860	0	2	19.4	H20	displacement
14:23	1600	0	1	1	H20	rate and pressure change
14:24	1500	0	0	0	NONE	shut down/shut well head in with 1500psi.
14:30	0	0	0	0	NONE	pump operator pre-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 [ ] N [N] 0		Y [ ] N [N] 0		228.4	1500	Y [ ] N [N]	*Munel E. R. Talbert II*

cement pump C992

Pressure 1 (psi) / Target Density (ppg) vs Elapsed Time (min) / Slurry Density (ppg) / Disch Rate (bpm)

Annotations on chart:
- pressure test
- pre-flush
- lead slurry@12.5#
- tail slurry @15.8#
- shut down/close in well head
- displacement

X-axis: Elapsed Time (min) — 0, 50, 100, 150, 180