

Cementing Report

Common Well Name: FEDERAL LAND BANK GAS UNIT G 4 / OH		Report No.: 1	Report Date: 5/17/2008
Project: COLORADO SOUTH NAD27	Site: FEDERAL LAND BANK GAS UNIT G 4	Spud Date/Time: 5/16/2008	
Event Type: DRL- ONSHORE (DON)	Start Date: 5/15/2008	End Date: 5/22/2008	AFE No.:
Contractor: HELMERICH & PAYNE	Rig Name/No.: H&P 291	Rig Release: 5/23/2008	X3-00CK6 (537,870.00 USD)
UWI: 1963' FSL 1057' FWL SEC 24 T33N R9W NMPM	Active Datum: ROTARY KELLY BUSHING @6,748.0ft (above Mean Sea Level)		

General Information

Job Type: Primary	Cement Job Start Date/Time: 5/17/2008 12:00AM	Job End Date/Time: 5/17/2008 12:00AM
Cement Company: SCHLUMBERGER	Cemented String: SURFACE CASING	String Size: 8.625 (in)
	Cementer: BRUCE REDD	String Set TMD: 439.3 (ft) Hole Size: 12.250 (in)

Pipe Movement

Pipe Movement: NO MOVEMENT	RPM: 0 (rpm)	Rotating Torque (init/avg/max): 0.0/0.0/0.0 (ft-lbf)
Rotating Time (Start-End):	Recip Drag Up/Down: 0.0 - 0.0 (kip)	SPM: 0.00 (spm) Stroke Length: 0.00 (ft)
Reciprocating Time (Start-End):		

Fluid Name: FRESH WATER

Fluids (1 of 3)

Slurry Type: SPACER	Class: SPACER	Description: SPACER WATER	Density: 8.30 (ppg)
Purpose: SPACER	Mix Water Ratio: 0.000 (gal/sk94)	Excess: 0.00 (%)	Mix Method: ON-THE-FLY
Yield: 0.0000 (ft3/sk94)	Water Volume: 20.0 (bbl)	Excess Slurry Volume:	Density Measured by: DENSOMETER
Sacks Used: 0.00 (94lb sacks)	Total Vol in Well: 0.0 (bbl)	Slurry Volume: 20.0 (bbl)	Excess Measured From: EST. GAUGE HOLE
Other Volume: 0.0 (bbl)	Density: 8.33 (ppg)	PV: 14.00 (cp) YP: 9.000 (lbf/100ft²)	Viscosity: 40.00 (s/qt)
Mud Type: SW/WBM	Gels 10 Sec: 4.000 (lbf/100ft²)	Gels 10 Min: 9.000 (lbf/100ft²)	

Fluid Name: FRESH WATER

Fluids (2 of 3)

Slurry Type: CEMENT	Class: G-CLASS	Description: SCAVENGER SLURRY	Density: 10.30 (ppg)
Purpose: PRODUCTION SLURRY	Mix Water Ratio: 29.600 (gal/sk94)	Excess: 0.00 (%)	Mix Method: ON-THE-FLY
Yield: 4.4600 (ft3/sk94)	Water Volume: 25.4 (bbl)	Excess Slurry Volume:	Density Measured by: DENSOMETER
Sacks Used: 27.00 (94lb sacks)	Total Vol in Well: 0.0 (bbl)	Slurry Volume: 19.9 (bbl)	Excess Measured From: EST. GAUGE HOLE
Other Volume: 0.0 (bbl)	Density: 8.33 (ppg)	PV: 14.00 (cp) YP: 9.000 (lbf/100ft²)	Viscosity: 40.00 (s/qt)
Mud Type: SW/WBM	Gels 10 Sec: 4.000 (lbf/100ft²)	Gels 10 Min: 9.000 (lbf/100ft²)	

Additives

Name	Type	Amount	Units	Concentration	Concentration Unit
D109	CLASS G	0.00		94.000	LB/SX

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Fluid Name: FRESH WATER **Fluids (3 of 3)**

Slurry Type:	CEMENT				
Purpose:	FILLER SLURRY	Class:	G-CLASS	Description:	TAIL SLURRY
Yield:	1.1700 (ft3/sk94)	Mix Water Ratio:	4.990 (gal/sk94)	Excess:	143.00 (%)
Sacks Used:	355.00 (94lb sacks)	Water Volume:	29.2 (bbl)	Excess Slurry Volume:	
Other Volume:	0.0 (bbl)	Total Vol in Well:	46.0 (bbl)	Slurry Volume:	74.0 (bbl)
Mud Type:	SW/WBM	Density:	8.33 (ppg)	PV: 14.00 (cp)	YP: 9.000 (lb/100ft²)
Gels 10 Sec:	4.000 (lb/100ft²)	Gels 10 Min:	9.000 (lb/100ft²)	Viscosity:	40.00 (s/qt)
				Density:	15.80 (ppg)
				Mix Method:	ON-THE-FLY
				Density Measured by:	DENSOMETER
				Excess Measured From:	EST. GAUGE HOLE

Additives

Name	Type	Amount	Units	Concentration	Concentration Unit
D907	CLASS G	0.00		94.000	LB/SX
S001		0.00		2.000	% WT
D29		0.00		0.250	LB/SX

Fluid Tests

Thick Time (hr)	Thick Temp (°F)	Free Water (%)	Free Water Temp (°F)	Fluid Loss (cc/30min)	Fluid Loss Temp (°F)	Fluid Loss Press (psi)	Comp Strength Time 1 (min)	Comp Strength Pressure 1 (psi)	Comp Strength Temperature 1 (°F)	Comp Strength Time 2 (min)	Comp Strength Pressure 2 (psi)	Comp Strength Temperature 2 (°F)
2.00	0.0	0.00	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0	0.0

Stages

Stage No.	Stage Type	Est. Top (ft)	Est. Bottom (ft)	Mud Circ. Rate (gpm)	Mud Circ. Press. (psi)	Top Plug	Bottom Plug	Plug Bumped	Pressure Bumped (psi)	Float Held	Pressure Held (min)	Returns	Circulate Prior (hr)	Cmt Vol to Surface (bbl)	Total Mud Lost (bbl)	Annular Flow After
1	PRIMARY CEMENT	18.0	450.0	192.0	80.0	Y	N	Y	750.0	Y	10.00	28 BBLS TAIL	0.75	28.0	0.0	N

Pumping Schedule

Fluid Pumped	Volume Pumped (bbl)	Avg. Disp. Rate (bbl/min)	Max Disp. Rate (bbl/min)	Slurry Top TMD (ft)	Slurry Base TMD (ft)	Start Mix Cmt	Start Slurry Pmp	Pumping End Date/Time	Start Disp	Foam Job	Gas Type	Gas Vol Used (scf)	Bh Circ Temp	Bh Static Temp
FRESH WATER - Cement Slurry	20.0	3.00	4.00	0.00	0.00	16:53	16:58	5/17/2008 17:31	17:16	N		0	0.00	0.00
FRESH WATER - Cement Slurry	19.9	3.00	4.00	0.00	0.00	16:53	16:58	5/17/2008 17:31	17:16	N		0	0.00	0.00
FRESH WATER - Cement Slurry	74.0	3.00	4.00	18.00	450.00	16:53	16:58	5/17/2008 17:31	17:16	N		0	0.00	0.00

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Tests

Casing Test	Shoe Test	Liner Top Test	
Test Pressure: 750.0 (psi)	FIT/LOT: 0.00 (ppg)	Liner Overlap: 0.0 (ft)	
Time: 10 (min)	Tool: N	Positive Test: 0.00 (ppg)	Positive Test Tool: N
Cement Found between Shoe and Collar: Y	Open Hole Length: 0.0 (ft)	Negative Test: 0.00 (ppg)	Negative Test Tool: N
	Hours Before Start: 0.00 (hr)	Time Before Test: 0.00 (hr)	
		Cmt Found on Tool: N	

Log/Survey Evaluation	Interpretation Summary
CBL Run: N	Cement Top: 0.0 (ft)
Under Pressure: 0.0 (psi)	How Determined:
Bond Quality:	TOC Sufficient: N
CET Run: N	Job Rating:
Bond Quality:	If Unsuccessful, Detection Indicator:
Temp Survey: N	Remedial Cement Required: N
Hrs Prior to Log: 0.00 (hr)	How Determined: 0.0

Remarks

28 BBLS TAIL CEMENT TO SURFACE
 CHECKED FLOATS - FLOATS HELD
 TESTED CASING TO 750 PSI FOR 10 MINUTES AFTER PLUG BUMPED