

## ENGINEER'S DAILY REPORT

Project: Dolphin Bond Claim Plugging and Abandonment (PHA-1233)  
Date: 5/2/2012

COGCC Document No. 2055510

### Personnel On Location

COGCC:	Dave Andrews	Project Manager	7:30	18:00	Off site for lunch 11:45 to 12:15
A-Plus:	George Archuleta	Superintendent	7:00	16:30	Left location to return Porta-Potty
	Jaben Mangum	Cementer	7:00	18:00	
	Wendell Bennally	Operator	7:00	18:00	
	Brent Begay	Derrick Hand	7:00	18:00	
	Robert Slaugh	Motor Man	7:00	18:00	
	Peter Romero	Floor Hand	7:00	18:00	
	Neil Frost	Wireline	7:00	14:30	
Screamin' Eagle:	Nolan Jaeger		7:00	17:00	
	Joe Gottschalk		7:00	16:00	
	Will Williams		7:00	14:45	

Weather: Cloudy (AM) Mostly to Partly Cloudy (PM)  
Calm to light breeze (AM & PM)  
40's - 50's (AM), 60's - 70's (PM)

Equipment:	Pickups	Pump truck
	Doghouse trailer	Wireline truck
	Haul trailer	Waste pit (tank)
	Pusher trailer	Circulation tank
	Tubing truck and trailer	Upright fresh water tank
	Workover rig	Porta-Potty
	Cement truck (bin type)	Cement truck (redi-mix type)

### **Work Summary**

Biscuit Ranch 10-31D: Bradenhead valve was left open to vent overnight. Venting with very slight flow this morning (40% LEL). SI bradenhead valve to begin pressure buildup at 7:00.

Mulvihill 15-32D well pressures this morning: CP = 0 psi, BH = 150 psi (left SI with 200 psi yesterday after cement job), bradenhead pressure bled down immediately. Loaded bradenhead annulus with 1/4 bbl water, and pressured up to 390 psi at 8:04. Pressure held solid (increased to 395 psi) over 15 minutes, test passed. Relieved pressure, and bradenhead started foaming. Foam was likely dissolution from corrosion inhibitor in the annulus. Decided to move to Arroyo 16 pad and wait for Mulvihill 15-32D bradenhead annulus "foam out" before pumping the surface plug. Left bradenhead valve open and left location at 9:45. Most A-Plus staff returned to location at 15:00. Foaming had stopped, and well was dead. Cut casing and removed wellhead. Started mixing and pumping cement for surface plug at 16:30. Mixed 29 sacks Class B cement (1.18 yield), circulated 20 sacks from 50' to surface in the annulus, and 9 sacks from 50' to surface in the casing. Continued rigging down from 16:45 to 18:00. Secured location and SDFN.

Arroyo 16 Pad: Mobilized welder truck, pump truck, and bin-type cement truck from Mulvihill 32 pad from 9:45 to 10:30. Cut off conductors approximately 4' bgl. Filled bottom few feet of each conductor with fill from stockpile on north side of pad (approximately 2-1/2 backhoe buckets of fill per conductor). Started mixing Class B cement (1.18 cf/sk yield, mixed at 15.7 ppg) at 13:00. Circulated cement from 50' to surface through flexible hose in conductors as follows: Arroyo 9-16A (40 sacks), Arroyo 9-16B (49 sacks), Arroyo 9-16D (53 sacks), and Arroyo 9-16C (60 sacks). Sucked some water out of Arroyo 9-16A prior to pumping cement; sucked water out of Arroyo 9-16B and Arroyo 9-16C while pumping cement; and Arroyo 9-16D was dry. Cement jobs complete at 14:05. Welded plates on conductors, and backfilled cellars with fill from stockpile on north side of pad. Arroyo Pad work complete and everyone off location at 15:00.

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## Measurement and Payment

<u>Pad No.</u>	<u>Bid Item No.</u>	<u>Description</u>	<u>Units</u>	<u>Unit Cost</u>	<u>Work Performed Today</u>	<u>Cumulative Percent/Units Complete</u>	<u>Total Approved</u>
BR-31	1	Mobilization and Demobilization	each	\$ 11,035.00		100%	\$ 11,035.00
BR-31	2	Plug and Abandon	hours	\$ 458.00		42.75	\$ 19,579.50
BR-31	3	Perforation Services	sets	\$ 1,722.00		4	\$ 6,888.00
BR-31	4	Cement Retainers	each	\$ 1,150.00		3	\$ 3,450.00
BR-31	6	Cement Services	sacks	\$ 26.00		431	\$ 11,206.00
BR-31	7 .1 (Change Order #1)	Covered Tank Rental	lump sum	\$ 1,322.10		100%	\$ 1,322.10
BR-31	7 .2 (Change Order #1)	Standby Time at 75% of regular rate	hours	\$ 343.50		3.5	\$ 1,202.25
BR-31	8 (Change Order #2)	Haul Salvaged Drilling Mud	lump sum	\$ 533.36		100%	\$ 533.36
BR-31	9.1 (Change Order #3)	Tubing Cut and Free Point Services	lump sum	\$ 10,180.54		100%	\$ 10,180.54
BR-31	9.2 (Change Order #3)	Standby Time at 75% of regular rate	hours	\$ 343.50		8.75	\$ 3,005.63
BR-3	1	Mobilization and Demobilization	each	\$ 11,035.00		100%	\$ 11,035.00
BR-3	2	Plug and Abandon	hours	\$ 458.00		13	\$ 5,954.00
BR-3	3	Perforation Services	sets	\$ 1,722.00		1	\$ 1,722.00
BR-3	4	Cement Retainers	each	\$ 1,150.00			\$ -
BR-3	5	Cast Iron Bridge Plugs	each	\$ 1,932.00		1	\$ 1,932.00
BR-3	6	Cement Services	sacks	\$ 26.00		74	\$ 1,924.00
M-32	1	Mobilization and Demobilization	each	\$ 11,035.00		50%	\$ 5,517.50
M-32	2	Plug and Abandon	hours	\$ 458.00	5.75 hours on Mulvihill 32 pad today to check well pressures, pressure test bradenhead annulus, and pump surface plug.	12.75	\$ 5,839.50
M-32	3	Perforation Services	sets	\$ 1,722.00		1	\$ 1,722.00
M-32	4	Cement Retainers	each	\$ 1,150.00		1	\$ 1,150.00
M-32	6	Cement Services	sacks	\$ 26.00	Mixed and pumped 29 sacks cement for Plug #2.	109	\$ 2,834.00
A-16	1	Plug and Abandon Conductors	lump sum	\$ 25,000.00	Plugged and abandoned conductor pipes and filled cellars.	100%	\$ 25,000.00

**Current Total => \$ 133,032.38**