

ENGINEER'S DAILY REPORT

Project: DB Orphan Blair #1 (PHA-1440)
Date: 10/13/2014

Personnel On Location

COGCC: Craig Burger
Racs: Jason McKinney 406-490-5534
3 employees

Landowner Rep:
Other:

Equipment: Drilltek T40k rig, Shaffer BOP, Case 590 Backhoe, mud pump and tank, divertor, water truck,
cement mixing skid, 300 bbl frac tank, trash pump, doghouse, welder

Weather: Sunny and cool

Work Summary

9:00 Racs pumped 500 gal of 9ppg kill mud and mud daylighted about 40 ft east of well.

Well builds to ~8 psi on gauge installed on ¾" riser at the surface.

11:00 Decide to pump 6 sxs of 15.1 ppg cement in an attempt to prevent additional daylighting.

Flowing pressure at surface gauge was ~10psi while pumping. Displaced with enough water to clear past gauge and valve on riser.

11:45 Gauge at surface at 6 psi dropped to 5 psi at noon.

12:00 Racs off DB Blair Orphan.

14:30 Checked Blair well. 5.5 psi on gauge. Left location.

Mobilization not complete.

Item No.	Description	Units	Unit Cost	Work Performed Today	Percent/Units Complete	Total Approved
1	Mobilization and Demobilization	Lump Sum	\$ 23,324.00	33%	33.0%	\$ 7,696.92
2	Plug and Abandon	Hours	\$ 502.30	0	0	\$ -
3	Cement Services	Sacks	\$ 30.70	6	6	\$ 184.20
4	Waste Water Disposal	Barrells	\$ 14.50	0	0	\$ -
5 (change order)						\$ -
6 (change order)						\$ -
Current Total \$						\$ 7,881.12

ENGINEER'S DAILY REPORT

Project: DB Orphan Blair #1 (PHA-1440)
Date: 10/14/2014

Personnel On Location

COGCC: Craig Burger
Racs: Jason McKinney 406-490-5534
3 employees

Landowner Rep:
Other:

Equipment: Drilltek T40k rig, Shaffer BOP, Case 590 Backhoe, mud pump and tank, divertor, water truck, cement mixing skid, 300 bbl frac tank, trash pump, doghouse, welder

Weather: Sunny and cool to warm

Work Summary

9:30 On location. Well flowing water when opened. Estimate 10-20gpm. Water piped to frac tank.

Racs began preparing to hot tap.

Will have to move rig and some equipment and remove cellar to get deep enough to hot tap at elevation below where the flange is required to be mounted due to rig floor height limitations. Hot tap tool is about 3' long and will not fit in cellar. 3.5 hours of backhoe time to remove cellar and create safe excavation for hot tap.

Excavation discovers that casing visible previously is a 12 7/8" od 12 1/8" id conductor to 7'. Casing Inside is 10 3/4" od.

The casings are not sealed, soil and parafin are between them. The BOP can not be attached to the outer casing.

Welder mechanical problem at 13:40, unbillable time. Racs off location at 15:00, welder scheduled for 10/15

Mobilization not complete.

Item No.	Description	Units	Unit Cost	<u>Work Performed Today</u>	<u>Percent/Units Complete</u>	<u>Total Approved</u>
1	Mobilization and Demobilization	Lump Sum	\$ 23,324.00	10%	43.0%	\$ 10,029.32
2	Plug and Abandon	Hours	\$ 502.30	0	0	\$ -
3	Cement Services	Sacks	\$ 30.70	0	6	\$ 184.20
4	Waste Water Disposal	Barrells	\$ 14.50	0	0	\$ -
5 (change order)						\$ -
6 (change order)						\$ -
Current Total \$						\$ 10,213.52

ENGINEER'S DAILY REPORT

Project: DB Orphan Blair #1 (PHA-1440)
Date: 10/15/2014

Personnel On Location

COGCC: Craig Burger
Racs: Jason Mckinney 406-490-5534
3 employees and subcontract welder

Landowner Rep:
Other:

Equipment: Drilltek T40k rig, Shaffer BOP, Case 590 Backhoe, mud pump and tank, divertor, water truck, cement mixing skid, 300 bbl frac tank, trash pump, doghouse, welder

Weather: Sunny to partly cloudy and cool to warm

Work Summary

7:30 On location. Excavation has water above the planned hot tap. Gauge on well appears to have 15psi.

Racs pumping water out of excavation with trash pump into frac tank.

8:00 Waiting on welder who is running late. Spoke with David Simmons (Racs). Requested change order proposal for unanticipated mobilization costs.

He plans to get with Jason and go over what has been done. Also requested a change order to provide LCM. They propose using a cotton seed/celloflake mix.

Asked him to look into providing or subcontracting fast setting thixotropic cement if necessary.

9:30 Welder on location. Problems working in excavation due to mud and water inflow.

11:30 Nipple for hot tap weld completed.

12:00 Electric drills for hot tap being used as AC. Welding generator was DC only and burned out both electric drills on location.

Racs went to Rifle to get another electric drill.

14:00 Racs back from Rifle. Cordless drill chuck does not fit on hot tap. Racs customized using chuck from burnt out drill.

15:00 Racs backed the hot tap out by hand, a slow process.

16:00 Hot tap plumbing installation complete and Racs begins replacing and backfilling cellar.

17:30 Hot tap is communicating with top gauge. Off location.

Mobilization not complete.

Item No.	Description	Units	Unit Cost	<u>Work Performed Today</u>	<u>Percent/Units Complete</u>	<u>Total Approved</u>
1	Mobilization and Demobilization	Lump Sum	\$ 23,324.00		43.0%	\$ 10,029.32
2	Plug and Abandon	Hours	\$ 502.30	0	0	\$ -
3	Cement Services	Sacks	\$ 30.70	0	6	\$ 184.20
4	Waste Water Disposal	Barrells	\$ 14.50	0	0	\$ -
5 (change order)						\$ -
6 (change order)						\$ -
Current Total \$						\$ 10,213.52

ENGINEER'S DAILY REPORT

Project: DB Orphan Blair #1 (PHA-1440)
Date: 10/16/2014

Personnel On Location

COGCC: Craig Burger
Racs: Jason McKinney 406-490-5534
3 employees and subcontract welder
Landowner Rep:
Other: site visits by Stan Spencer and Carlos Lujan (COGCC) and Guy Patterson (Debeque town manager)

Equipment: Drilltek T40k rig, Shaffer BOP, Case 590 Backhoe, mud pump and tank, divertor, water truck, cement mixing skid, 300 bbl frac tank, trash pump, doghouse, welder

Weather: Sunny to partly cloudy and cool to warm

Work Summary

7:30 Racs finishing backfilling cellar. Gauge on top reads 10 psi.
8:30 Racs setting mud boat over well.
9:00 Mud boat set, welder on location.
10:00 Pumping from hot tap to frac tank with trash pump. Top gauge goes to 1 psi but methane detectable venting from top valve when open. Top gauge builds back to 9 psi when both valves shut.
11:00 Decide to pump cement kill down hot tap. Pumped 100 gallons of water heated with calcium chloride to attempt to wash out paraffin.
12:30 Pumped cement at low rate. Flowing pressure about 6 psi. Pumped 16 sxs of 12.8 ppg with 1.5 sxs LCM.
Displaced with 100 gallons water. Top gauge reads 0 psi.
13:15 Gauge still reads 0 psi. WOC. Off location.
Waiting on change order costs from Racs.
Mobilization not complete.

Item No.	Description	Units	Unit Cost	Work Performed Today	Percent/Units Complete	Total Approved
1	Mobilization and Demobilization	Lump Sum	\$ 23,324.00		43.0%	\$ 10,029.32
2	Plug and Abandon	Hours	\$ 502.30	0	0	\$ -
3	Cement Services	Sacks	\$ 30.70	16	22	\$ 675.40
4	Waste Water Disposal	Barrells	\$ 14.50	0	0	\$ -
5 (change order)						\$ -
6 (change order)						\$ -
Current Total \$						\$ 10,704.72

ENGINEER'S DAILY REPORT

Project: DB Orphan Blair #1 (PHA-1440)
Date: 10/16/2014

Personnel On Location

COGCC: Craig Burger
Racs: Jason McKinney 406-490-5534
3 employees and subcontract welder

Landowner Rep:
Other:

Equipment: Drilltek T40k rig, Shaffer BOP, Case 590 Backhoe, mud pump and tank, divertor, water truck,
cement mixing skid, 300 bbl frac tank, trash pump, doghouse, welder

Weather: Sunny to and warm

Work Summary

7:30 Gauge at 7psi. Bled to 0, no water but venting methane. Racs sucked water from cellar with trash pump and set up ventilation.

8:45 Attempted to cut conductor casing with torch. Flare lit on top pipe but will not stay lit. Parafin between casings caught fire.

9:15 Called for air say to allow safe cut of the casings due to potential for fire. This is a change order.

11:15 Cameron (subcontractor) on location with air saw. Cameron left location at 13:45.

12:30 Air saw cut complete. Well is not flowing water but small amounts of methane still being produced.

Contractor proposes using a stripping head and a divertor for well control. System capable of shutting in 600 psi.

COGCC engineering supervisor and manager agree that stripping head and divertor are acceptable.

Surface casing inside conductor is 10 3/4" od, 10 1/8" id. Racs had to get a different flange due to the smaller casing.

Attempted to pull conductor with winch while holding casing down with rig. Would not pull, will have to cut.

15:40 Conductor is cut. Preparing to weld on flange.

16:55 Flange is welded on. Nippling up.

17:30 Stripper head with divertor installed. Well shut in. Mobilization is complete.

Item No.	Description	Units	Unit Cost	Work Performed Today	Percent/Units Complete	Total Approved
1	Mobilization and Demobilization	Lump Sum	\$ 23,324.00	17%	50.0%	\$ 11,662.00
2	Plug and Abandon	Hours	\$ 502.30	0	0	\$ -
3	Cement Services	Sacks	\$ 30.70	16	22	\$ 675.40
4	Waste Water Disposal	Barrells	\$ 14.50	0	0	\$ -
5 (change order)						\$ -
6 (change order)						\$ -
Current Total \$						\$ 12,337.40