

## KOCH EXPLORATION CO LLC DAILY DRILLING REPORT

Well:	WRD Federal 7-33	Date:	4-16-012	Drilled to:
County/ST:	Rio Blanco, CO	Days:	1	Drilled from: 0
Location:	33-T-2N-R-97W SWNE	Rig:	DUCO	Footage: 0
Elevation:		Supervisor:	Clark	

BIT DATA							COST DATA (US\$)		
Bit #	Size	Make	Type	Serial #	Jets	Cond		Daily	Cumulative
	12 1/4						Location		\$0
							Rig move		\$0
Bit #	In	Out	Feet	Hours	WOB	RPM	Rig	\$3,200	\$3,200
							Fuel		\$0
							Camper		\$0
PUMP DATA							BOPE		\$0
Pump #	Make	Model	Liner	SPM	Rate	Pressure	Bits		\$0
							Air Equip		\$0
							Equip rental	\$250	\$250
							Mud		\$0
							Mud Logger		\$0
SURVEY DATA							Trucking	\$1,500	\$1,500
Depth	Deviation	Direction	Depth	Deviation	Direction		Water	\$150	\$150
							Labor	\$500	\$500
							Supervision		\$0
							Core/DST		\$0
MUD DATA							Logs		\$0
Weight	Visc	YP	PV	Gels	WL	Cake	Cement		\$0
							Fishing		\$0
% Oil	% Water	% Solids	pH	Ca	Cl	LCM	Misc	\$250	\$250
							Casing		\$0
AIR DATA-DRILLING			GAS DATA-DRILLING				Tubing		\$0
Air Rate	Foam Rate	Foam Mix	Depth	Flare	Duration	Operation	Rods		\$0
							Wellhead		\$0
							TOTAL	\$5,850	\$5,850

### Fuel Usage

Rig EngType	Model	HP	Fuel Type	Gallons Used	Pump Eng Type	Model	HP	Gallons Used
Detroit	Series 50	380	Diesel	10	Detroit	Series 50/Diesel	380	
	Total Gals	Rig Eng	10	Pump Eng	0	Ttl Rig & Pump	10	

## TIME DISTRIBUTION

[illegible]

**BHA DATA:**

**OPERATION @ 6 AM:**

## REMARKS:

--

## KOCH EXPLORATION CO LLC DAILY DRILLING REPORT

Well:	WRD Federal 7-33	Date:	4-17-012	Drilled to:
County/ST:	Rio Blanco, CO	Days:	2	Drilled from: 0
Location:	33-T-2N-R-97W SWNE	Rig:	DUCO	Footage: 0
Elevation:	0	Supervisor:	Clark	

BIT DATA							COST DATA (US\$)		
Bit #	Size	Make	Type	Serial #	Jets	Cond		Daily	Cumulative
							Location		\$0
							Rig move		\$0
Bit #	In	Out	Feet	Hours	WOB	RPM	Rig	\$3,600	\$6,800
							Fuel		\$0
							Camper		\$0
PUMP DATA							BOPE	\$250	\$250
Pump #	Make	Model	Liner	SPM	Rate	Pressure	Bits		\$0
0	0	0	0	0			Air Equip		\$0
0	0	0	0	0			Equip rental	\$250	\$500
0	0	0	0	0			Mud		\$0
0	0	0	0	0			Mud Logger		\$0
SURVEY DATA							Trucking		\$1,500
Depth	Deviation	Direction	Depth	Deviation	Direction		Water	\$200	\$350
							Labor	\$2,600	\$3,100
							Supervision		\$0
							Core/DST		\$0
MUD DATA							Logs		\$0
Weight	Visc	YP	PV	Gels	WL	Cake	Cement		\$0
							Fishing		\$0
% Oil	% Water	% Solids	pH	Ca	Cl	LCM	Misc	\$250	\$500
							Casing		\$0
AIR DATA-DRILLING			GAS DATA-DRILLING				Tubing		\$0
Air Rate	Foam Rate	Foam Mix	Depth	Flare	Duration	Operation	Rods		\$0
							Wellhead		\$0
							TOTAL	\$7,150	\$13,000

### Fuel Usage

Rig EngType	Model	HP	Fuel Type	Gallons Used	Pump Eng Type	Model	HP	Gallons Used
Detroit	Series 50	380	Diesel	13	Detroit	Series 50/Diesel	380	10
	Total Gals	Rig Eng	23	Pump Eng	10	Ttl Rig & Pump	33	

## TIME DISTRIBUTION

[illegible]

**OPERATION @ 6 AM:**

## REMARKS:

## KOCH EXPLORATION CO LLC DAILY DRILLING REPORT

Well:	WRD Federal 7-33	Date:	4-18-012	Drilled to:
County/ST:	Rio Blanco, CO	Days:	3	Drilled from: 0
Location:	33-T-2N-R-97W SWNE	Rig:	DUCO	Footage: 0
Elevation:	0	Supervisor:	Clark	

BIT DATA							COST DATA (US\$)		
Bit #	Size	Make	Type	Serial #	Jets	Cond		Daily	Cumulative
							Location		\$0
							Rig move		\$0
Bit #	In	Out	Feet	Hours	WOB	RPM	Rig	\$3,800	\$10,600
							Fuel		\$0
							Camper		\$0
PUMP DATA							BOPE	\$250	\$500
Pump #	Make	Model	Liner	SPM	Rate	Pressure	Bits		\$0
0	0	0	0	0			Air Equip		\$0
0	0	0	0	0			Equip rental	\$250	\$750
0	0	0	0	0			Mud		\$0
0	0	0	0	0			Mud Logger		\$0
SURVEY DATA							Trucking		\$1,500
Depth	Deviation	Direction	Depth	Deviation	Direction		Water	\$200	\$550
							Labor	\$2,500	\$5,600
							Supervision		\$0
							Core/DST		\$0
MUD DATA							Logs	\$1,550	\$1,550
Weight	Visc	YP	PV	Gels	WL	Cake	Cement		\$0
							Fishing		\$0
% Oil	% Water	% Solids	pH	Ca	Cl	LCM	Misc	\$250	\$750
							Casing		\$0
AIR DATA-DRILLING			GAS DATA-DRILLING				Tubing		\$0
Air Rate	Foam Rate	Foam Mix	Depth	Flare	Duration	Operation	Rods		\$0
							Wellhead		\$0
							TOTAL	\$8,800	\$21,800

### Fuel Usage

Rig EngType	Model	HP	Fuel Type	Gallons Used	Pump Eng Type	Model	HP	Gallons Used
Detroit	Series 50	380	Diesel	15	Detroit	Series 50/Diesel	380	10
	Total Gals	Rig Eng	38	Pump Eng	20	Ttl Rig & Pump	58	

## TIME DISTRIBUTION

Hours	Operation
5:30-7:00	Crew travel from Vernal.
7:00-13:30	Lead WL crew into location. Safety meeting: Go over plans with crew and WL Crew for setting plug. RUWL.
	RIHW/4-1/2" CIBP, set @ 1310'. POOH/rig down WL.
	PU/4-1/2" Fullbore packer, trip in hole. Set packer @ 800', casing tested to 500# between packer and CIBP. Trip up to 500', test casing to 500#
	between packer and CIBP, held 500# OK. Test @ 434', casing held 500# down to CIBP. Pull up, set packer every stand, starting @ 434', could not get a test until we set the packer @ 278'. We had a good test from 278' from the packer to surface in the annulus. With packer @ 278', open the bradenhead, pump down tubing, bradenhead started blowing quickly and we had full circulation in less than a minute.
	Release packer, trip out. Lay down packer. Trip tubing in. Land @ 1278'. UFBOP. NUWH. SWI. RD all pump lines. RDPU. Ready to move in the morning.
13:30-15:00	Crew travel to Vernal.
<b>BHA DATA:</b>	

**BHA DATA:**

**OPERATION @ 6 AM:**

## REMARKS: