

KOCH EXPLORATION CO LLC DAILY DRILLING REPORT

Well:	WRD Federal 7-33	Date:	8-7-012	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	\$4,500	\$4,500
							Fuel		\$0
							Camper		\$0
PUMP DATA							BOPE	\$250	\$250
Pump #	Make	Model	Liner	SPM	Rate	Pressure	Bits		\$0
							Air Equip		\$0
							Equip rental	\$750	\$750
							Mud		\$0
							Mud Logger		\$0
SURVEY DATA							Trucking	\$1,400	\$1,400
Depth	Deviation	Direction	Depth	Deviation	Direction		Water	\$200	\$200
							Labor	\$3,000	\$3,000
							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	\$10,350	\$10,350

Fuel Usage

Rig EngType	Model	HP	Fuel Type	Gallons Used	Pump Eng Type	Model	HP	Gallons Used
Detroit	Series 50	380	Diesel	14	Detroit	Series 50/Diesel	380	10
	Total Gals	Rig Eng	14	Pump Eng	10	Ttl Rig & Pump	24	

TIME DISTRIBUTION

Hours	Operation
5:30-7:00	Crew travel from Vernal.
7:00-11:00	Safety Meeting: Go over plans to pull rig up the hill to the 7-33 with crew and blade hand. Rode rig from the 4-29 to the bottom of the 7-33 hill.
	Utilize blade to pull rig to location. MIRUPU. Spot in pump and tank. Rental hand had arrived with the wrong adaptor spool. Called for 7-5/8" spool, run to Rangely for spool.
11:00-15:30	Casing dead. UFWH. FUBOP with correct adaptor. TOOHH/with 1300' of tubing. PU/casing scraper, trip in hole to 560'. TOOHH. Lay down scraper.
	Trip in hole with 4-1/2" fullbore packer. Set packer @ 417', Test below the packer to the CIBP @ 1310', held 500# OK 15 minutes. Attempt to test above,
	no test. Pull up the hole, testing @ 385', had communication around the packer. Trip up to 322', no test. Trip to 290', no test above the packer.
	Trip to 258', a good 500# test above the packer. We have holes between 417' and 258'. With packer @ 258', open bradenhead, pump down tubing,
	full circulation up bradenhead. Release packer, trip out of hole. Pickup 4-1/2" cement retainer, trip in hole, set retainer @ 258'.
15:30-16:30	Crew drove cement truck to the bulk trailer and filled truck with cement. Spot truck on location. Spot fresh water truck. SWI. SDFD.
16:30-18:00	Crew travel to Vernal.

BHA DATA:

OPERATION @ 6 AM:

REMARKS:

KOCH EXPLORATION CO LLC DAILY DRILLING REPORT

Well:	WRD Federal 7-33	Date:	8-8-012	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	\$3,800	\$8,300
							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	\$1,000
0	0	0	0	0			Mud		\$0
0	0	0	0	0			Mud Logger		\$0
SURVEY DATA							Trucking		\$1,400
Depth	Deviation	Direction	Depth	Deviation	Direction		Water		\$200
							Labor	\$1,500	\$4,500
							Supervision		\$0
							Core/DST		\$0
MUD DATA							Logs		\$0
Weight	Visc	YP	PV	Gels	WL	Cake	Cement	\$1,800	\$1,800
							Fishing		\$0
% Oil	% Water	% Solids	pH	Ca	CI	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	\$7,850	\$18,200

Fuel Usage

Rig EngType	Model	HP	Fuel Type	Gallons Used	Pump Eng Type	Model	HP	Gallons Used
Detroit	Series 50	380	Diesel	8	Detroit	Series 50/Diesel	380	7
	Total Gals	Rig Eng	22	Pump Eng	17	Ttl Rig & Pump	39	

TIME DISTRIBUTION

[illegible]

OPERATION @ 6 AM:

REMARKS:

KOCH EXPLORATION CO LLC DAILY DRILLING REPORT

Well:	WRD Federal 7-33	Date:	8-9-012	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	\$4,850	\$13,150
							Fuel		\$0
							Camper		\$0
PUMP DATA							BOPE	\$250	\$750
Pump #	Make	Model	Liner	SPM	Rate	Pressure	Bits		\$0
0	0	0	0	0			Air Equip		\$0
0	0	0	0	0			Equip rental	\$1,300	\$2,300
0	0	0	0	0			Mud		\$0
0	0	0	0	0			Mud Logger		\$0
SURVEY DATA							Trucking		\$1,400
Depth	Deviation	Direction	Depth	Deviation	Direction		Water	\$150	\$350
							Labor	\$500	\$5,000
							Supervision		\$0
							Core/DST		\$0
MUD DATA							Logs		\$0
Weight	Visc	YP	PV	Gels	WL	Cake	Cement		\$1,800
							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	\$7,300	\$25,500

Fuel Usage

Rig EngType	Model	HP	Fuel Type	Gallons Used	Pump Eng Type	Model	HP	Gallons Used
Detroit	Series 50	380	Diesel	12	Detroit	Series 50/Diesel	380	20
	Total Gals	Rig Eng	34	Pump Eng	37	Ttl Rig & Pump	71	

TIME DISTRIBUTION

[illegible]

OPERATION @ 6 AM:

REMARKS:

KOCH EXPLORATION CO LLC DAILY DRILLING REPORT

Well:	WRD Federal 7-33	Date:	8-10-012	Drilled to:
County/ST:	Rio Blanco, CO	Days:	4	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	\$4,350	\$17,500
							Fuel		\$0
							Camper		\$0
PUMP DATA							BOPE	\$250	\$1,000
Pump #	Make	Model	Liner	SPM	Rate	Pressure	Bits		\$0
0	0	0	0	0			Air Equip		\$0
0	0	0	0	0			Equip rental	\$1,300	\$3,600
0	0	0	0	0			Mud		\$0
0	0	0	0	0			Mud Logger		\$0
SURVEY DATA							Trucking		\$1,400
Depth	Deviation	Direction	Depth	Deviation	Direction		Water	\$150	\$500
							Labor		\$5,000
							Supervision		\$0
							Core/DST		\$0
MUD DATA							Logs		\$0
Weight	Visc	YP	PV	Gels	WL	Cake	Cement		\$1,800
							Fishing		\$0
% Oil	% Water	% Solids	pH	Ca	Cl	LCM	Misc	\$250	\$1,000
							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	\$6,300	\$31,800

Fuel Usage

Rig EngType	Model	HP	Fuel Type	Gallons Used	Pump Eng Type	Model	HP	Gallons Used
Detroit	Series 50	380	Diesel	12	Detroit	Series 50/Diesel	380	20
	Total Gals	Rig Eng	46	Pump Eng	57	Ttl Rig & Pump	103	

TIME DISTRIBUTION

[illegible]

OPERATION @ 6 AM:

REMARKS:

KOCH EXPLORATION CO LLC DAILY DRILLING REPORT									
Well:		WRD Federal 7-33			Date:		8-13-012		Drilled to:
County/ST:		Rio Blanco, CO			Days:		5		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	\$4,200	\$21,700
							Fuel		\$0
							Camper		\$0
PUMP DATA							BOPE	\$250	\$1,250
Pump #	Make	Model	Liner	SPM	Rate	Pressure	Bits		\$0
0	0	0	0	0			Air Equip		\$0
0	0	0	0	0			Equip rental	\$1,300	\$4,900
0	0	0	0	0			Mud		\$0
0	0	0	0	0			Mud Logger		\$0
SURVEY DATA							Trucking		\$1,400
Depth	Deviation	Direction	Depth	Deviation	Direction		Water		\$500
							Labor	\$2,000	\$7,000
							Supervision		\$0
							Core/DST		\$0
MUD DATA							Logs		\$0
Weight	Visc	YP	PV	Gels	WL	Cake	Cement	\$500	\$2,300
							Fishing		\$0
% Oil	% Water	% Solids	pH	Ca	CI	LCM	Misc	\$250	\$1,250
							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	\$8,500	\$40,300
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	15	
	Total Gals	Rig Eng	61	Pump Eng	72	Ttl Rig & Pump	133		
TIME DISTRIBUTION									
Hours	Operation								
5:30-7:00	Crew travel from Vernal.								
7:00-10:00	Safety Meeting: Go over plans for drilling. Run in, tag TOC @ 313', break circulation, start drilling cement.								
	Drilling hard cement 313-391'. At 391' bit fell through cement. Circulated hole clean, ran into 425', hole clean. Close rams, pressure up on casing to 500#, dropped in pressure quickly. Pressure up to 600#, pressure dropped to 250# in 3 minutes. 1 more attempt with like results. Trip out of hole. Call for packer.								
10:00-12:00	Wait on packer.								
12:00-15:00	Packer on location @ 12:00. Pickup packer, trip in hole to 320'. Set packer, test below packer, casing would not hold pressure.								
	Test above the packer, casing held 500# OK. Trip in hole to 385', set packer. Test below packer, casing did not hold pressure. Run into 447', set and test. Casing held below the packer. Looks like hole is in casing between 320' and 417'. Casing had tested before the 1st squeeze @ 417'. Trip out of hole with packer. Trip in hole to 447'. Mix cement, pump 17 sks 15.6#, 1.16 Yield, (19.72 CUFT). Displace with 1 bbl, trip out of hole. Shut blind rams, pressure up on casing to 500#. SWI. SDFD.								
15:00-15:30	Wash up equipment.								
15:30-17:00	Crew travel to Vernal.								
	Note: Will drill out cement in the AM.								
BHA DATA:									
OPERATION @ 6 AM:									
REMARKS:									

KOCH EXPLORATION CO LLC DAILY DRILLING REPORT

Well:	WRD Federal 7-33	Date:	8-14-012	Drilled to:
County/ST:	Rio Blanco, CO	Days:	6	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	\$2,800	\$24,500
							Fuel		\$0
							Camper		\$0
PUMP DATA							BOPE	\$250	\$1,500
Pump #	Make	Model	Liner	SPM	Rate	Pressure	Bits		\$0
0	0	0	0	0			Air Equip		\$0
0	0	0	0	0			Equip rental		\$4,900
0	0	0	0	0			Mud		\$0
0	0	0	0	0			Mud Logger		\$0
SURVEY DATA							Trucking		\$1,400
Depth	Deviation	Direction	Depth	Deviation	Direction		Water		\$500
							Labor		\$7,000
							Supervision		\$0
							Core/DST		\$0
MUD DATA							Logs		\$0
Weight	Visc	YP	PV	Gels	WL	Cake	Cement		\$2,300
							Fishing		\$0
% Oil	% Water	% Solids	pH	Ca	Cl	LCM	Misc	\$250	\$1,500
							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	\$3,300	\$43,600

Fuel Usage

Rig EngType	Model	HP	Fuel Type	Gallons Used	Pump Eng Type	Model	HP	Gallons Used
Detroit	Series 50	380	Diesel	4	Detroit	Series 50/Diesel	380	
	Total Gals	Rig Eng	65	Pump Eng	72	Ttl Rig & Pump	137	

TIME DISTRIBUTION

[illegible]

BHA DATA:

OPERATION @ 6 AM:

REMARKS:

KOCH EXPLORATION CO LLC DAILY DRILLING REPORT

Well:	WRD Federal 7-33	Date:	8-15-012	Drilled to:
County/ST:	Rio Blanco, CO	Days:	7	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	\$4,300	\$28,800
							Fuel		\$0
							Camper		\$0
PUMP DATA							BOPE	\$250	\$1,750
Pump #	Make	Model	Liner	SPM	Rate	Pressure	Bits		\$0
0	0	0	0	0			Air Equip		\$0
0	0	0	0	0			Equip rental	\$1,300	\$6,200
0	0	0	0	0			Mud		\$0
0	0	0	0	0			Mud Logger		\$0
SURVEY DATA							Trucking		\$1,400
Depth	Deviation	Direction	Depth	Deviation	Direction		Water		\$500
							Labor		\$7,000
							Supervision		\$0
							Core/DST		\$0
MUD DATA							Logs		\$0
Weight	Visc	YP	PV	Gels	WL	Cake	Cement		\$2,300
							Fishing		\$0
% Oil	% Water	% Solids	pH	Ca	Cl	LCM	Misc	\$250	\$1,750
							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	\$6,100	\$49,700

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	15
	Total Gals	Rig Eng	80	Pump Eng	87	Ttl Rig & Pump	167	

TIME DISTRIBUTION

Hours	Operation
5:30-7:00	Crew travel from Vernal.
7:00-13:30	Safety Meeting: Handling swivel hoses.
	TIH/with bit, 4 drill collars, and tubing. RU swivel. Tag TOC @ 218'. Break circulation, start drilling cement @ 7:30.
	Continue drilling, cement hard but drilling OK. Drill to 447', fall thru hard cement. Run on in to 470', clean up returns. Shut pipe rams,
	pressure up on casing to 550#, drop 80# in 19 minutes. BOPs leaking around doors. TOO#H, lay collars and bit down. Rig down swivel.
	Shut blind rams, pressure up on casing to 580#. Pressure dropped to 510# in 20 minutes. BOPs continue to leak. Most likely full of
	cement from previous work.Tighten doors, less leak but still leaking at doors and around the blinds. Run to WRD yard and get a B-1
	adaptor. Pull the BOPs off. Flange up B-1 on the changeover spool. Pressure up on casing to 650#. Pressure dropped slowly to 600# in
	15 minutes with the ring gasket leaking. The casing should pass MIT. Bled off pressure. SWI. SDFD.
13:30-15:00	Crew travel to Vernal.
	Note: Plan to change out top R45/46 ring gasket and retighten B-1 with all bolts before test in the AM.
BHA DATA:	

BHA DATA:

OPERATION @ 6 AM:

REMARKS:

KOCH EXPLORATION CO LLC DAILY DRILLING REPORT

Well:	WRD Federal 7-33	Date:	8-16-012	Drilled to:
County/ST:	Rio Blanco, CO	Days:	8	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	\$4,000	\$32,800
							Fuel		\$0
							Camper		\$0
PUMP DATA							BOPE	\$250	\$2,000
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	\$6,450
0	0	0	0	0			Mud		\$0
0	0	0	0	0			Mud Logger		\$0
SURVEY DATA							Trucking		\$1,400
Depth	Deviation	Direction	Depth	Deviation	Direction		Water	\$300	\$800
							Labor	\$2,000	\$9,000
							Supervision		\$0
							Core/DST		\$0
MUD DATA							Logs		\$0
Weight	Visc	YP	PV	Gels	WL	Cake	Cement		\$2,300
							Fishing		\$0
% Oil	% Water	% Solids	pH	Ca	Cl	LCM	Misc	\$250	\$2,000
							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	\$7,050	\$56,750

Fuel Usage

Rig EngType	Model	HP	Fuel Type	Gallons Used	Pump Eng Type	Model	HP	Gallons Used
Detroit	Series 50	380	Diesel	7	Detroit	Series 50/Diesel	380	
	Total Gals	Rig Eng	87	Pump Eng	87	Ttl Rig & Pump	174	

TIME DISTRIBUTION

Hours	Operation
5:30-7:00	Crew travel from Vernal.
7:00-11:00	UF/B1 adaptor. Changeout R-45/46 combo gasket. FU/B1 with all bolts.
	Safety Meeting: Go over plans with test truck operator and hands. RU test truck.
	At 7:30 start test. Pressure casing to 563.75#. 5 minutes-547.5#, 10 minutes-537.5#, 15 minutes-528#. Pressure drop of 35.75# in 15
	minutes. Test passed. RD test truck. UFWH. TIH/with 38 jts, land tubing @ 1180'. FUWH. RDPU. RD all pump lines and cement
	equipment. Clean up location.
11:00-11:30	Rode rig to the old Chesapeake yard on the hiway.
11:30-13:00	Crew travel to Vernal.
	Note: With this MIT, we believe that WRD is in compliance with all downhole work.
BHA DATA:	

BHA DATA:

OPERATION @ 6 AM:

REMARKS: