Plot Name: KGS_Phase2 results_08-13
Plot File: KGS_Phase2 results_08-13.PLT
Well File: Piceance_ExxonMobil Willow Ridge T63X-2G
Time: 08:50 PM
Date: Tue, Aug 19, 2008
Log analyst:

The Discovery Group, Inc.

DIGITAL FORMATION
LESA for Windows 7.0

County: RIO BLANCO
Field: PICEANCE CREEK
Location: SW NE SEC-2, T-3S, R-97W
Well: WILLOW RIDGE COMM T63X-2G
Company: EXXONMOBIL PRODUCTION CO (US WEST)

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Well: WILLOW RIDGE COMM T63X-2G
File: Piceance_ExxonMobil Willow Ridge T63X-2G
Field: PICEANCE CREEK
County: RIO BLANCO State: COLORADO Country:
API: 05-103-10391-0000

Location: SW NE SEC-2, T-3S, R-97W

Sect: 2 Twp: 3S Rng: 97W

Schlumberger
PEX-AITH-NGT
DSST-GPIT
MRX-GR
MSCT - CORES

Permanent datum	GROUND LEVEL	@ 6621.000000	F
Log measured from	ROTARY TABLE	25.000000 above perm datum	
Drlg measured from	ROTARY TABLE		

Elev.:KB: 6646.00000 F
DF:
GL: 6621.00000 F

Date		22-Jun-2004							
Run No.		3							
Depth Driller		13750.00000							
Depth Logger		13770							
Bottom Logged Interval		13762.00000							
Top Logged Interval		8888.00000							
Casing Driller		@		@		@		@	
Casing Logger									
Bit Size		8.5 in							
Type Fluid in Hole		OIL-BASED MUD							
Density	Viscosity	9.2	52.00000						
pH	Fluid Loss		6.00000						
Source of Sample		NONE							
Rm @ Meas. Temp.		@		@		@		@	
Rmf @ Meas. Temp.		0.2 @ 0		@		@		@	
Rmc @ Meas. Temp.		@		@		@		@	
Source: Rmf	Rmc								
Rm @ BHT	Rmf @ BHT	@ 269		@		@		@	
Time Circulation Stopped		2 30							
Time Tool Last on Bottom									
Max. Rec. Temp.		269							
Equipment Location		VERNAL							
Recorded By		M. BERNAL-MORA							
Witnessed By		J. SMITH G. LAMB							

Permeability: Core PHI-K derived perm: By Basin (0.0001–10 unkn); Log-derived Timur perm: Variable M (0.0001–10 unkn); Core perm, Klink. in situ; KGS 2 (0.0001–10 mD); Core perm, Klink. in situ; KGS meas. (0.0001–10 mD)

Water Saturation/BVW: Effective Porosity (0–0.5 v/v); Bulk Volume Water: Variable M (0–0.5 unkn); Bulk Volume Water Irr. : Variable M (0–0.5 unkn); Log Water Saturation: Variable M (0–1 unkn); Variable Archie m (1–3 none); Core Water Saturation (0–1 v/v); Hydrocarbons; Water

Crossplot Porosities: Total Porosity (0–0.3 v/v); Effective Porosity (0–0.3 v/v); Core Porosity (0–0.3 v/v); Core Porosity: KGS (0–0.3 v/v); Visible Porosity: Thin Section (0–0.3 v/v)

Grain Density: RHOG: from logs (2.4–3.2 G/C3); Core RHOG (2.4–3.2 g/cm3); Core RHOG: KGS (2.4–3.2 g/cm3)

Raw Porosity Data: RHOZ (1.9–2.9 G/C3); DT (140–40 [N/A]); TNPH_SS (0.45–(-0.15) v/v); Gas Crossover

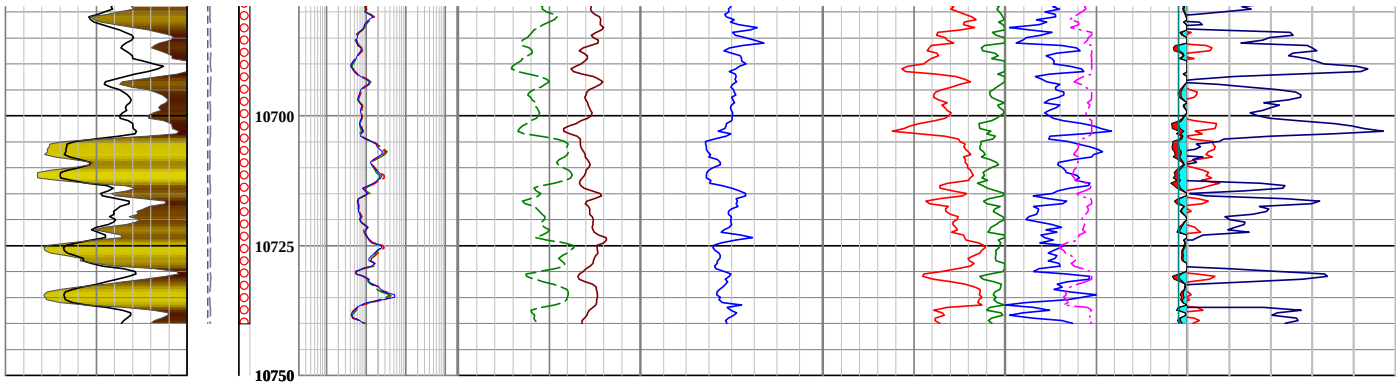
Resistivity: AT90 (0.2–2000 OHMM); AT30 (0.2–2000 OHMM); AT20 (0.2–2000 OHMM)

Borehole: HCAL (4–14 IN); BS (4–14 unkn); Bad Hole

Lithology: GR (0–200 GAPI); Baseline Shifted SP (-100–100 [N/A]); TENS (2000–3000 LBF); Rock type: from core (20000–10000 none); Thin Section Vshale (0–1 v/v); Coal; shale volume

1:240 MD in F

10500 10525 10550 10575 10600 10625 10650 10675



Zone Parameters — **Did NOT Use the Thin Bed Analysis**

Gross Range: [8369.5] - [13794]

[8370] - [8890] Mesaverde

Neutron Type	Auto Select		Vsh Choice:	GR - Linear		Sonic Eq.:	Time-Series	
Lithology:	Sandstone		PhiN sh:	0.352	fractions	Rw:	0.1	ohm-m
Rho ma:	2.65	gm/cc	Rho sh:	2.333	gm/cc	Rmf:	0.2	ohm-m
Dt ma:	51.3	us/ft	Dt sh:	95	us/ft	m:	1.85	
GR cl:	21		H20 Model:	Archie's		n:	2	
GR sh:	62		Deep Rsh:	5	ohm-m	Pressure:	3623.99	psi
SP cl:	10		Shal Rsh:	5	ohm-m			
SP sh:	90		Porosity:	Density/Neutron				

[8890] - [10900] KMv 01

Neutron Type	Auto Select		Vsh Choice:	GR - Linear		Sonic Eq.:	Time-Series	
Lithology:	Sandstone		PhiN sh:	0.193	fractions	Rw:	0.05	ohm-m
Rho ma:	2.65	gm/cc	Rho sh:	2.683	gm/cc	Rmf:	0.2	ohm-m
Dt ma:	51.3	us/ft	Dt sh:	95	us/ft	m:	1.85	
GR cl:	44		H20 Model:	Archie's		n:	2	
GR sh:	159		Deep Rsh:	5	ohm-m	Pressure:	4719.7	psi
SP cl:	0		Shal Rsh:	5	ohm-m			
SP sh:	0		Porosity:	Density/Neutron				

[10900] - [12845] Cameo?

Neutron Type	Auto Select		Vsh Choice:	GR - Linear		Sonic Eq.:	Time-Series	
Lithology:	Sandstone		PhiN sh:	0.172	fractions	Rw:	0.05	ohm-m
Rho ma:	2.64	gm/cc	Rho sh:	2.683	gm/cc	Rmf:	0.2	ohm-m
Dt ma:	51.3	us/ft	Dt sh:	95	us/ft	m:	1.85	
GR cl:	59		H20 Model:	Archie's		n:	2	
GR sh:	147		Deep Rsh:	5	ohm-m	Pressure:	1	psi
SP cl:	0		Shal Rsh:	5	ohm-m			
SP sh:	0		Porosity:	Density/Neutron				

[12845] - [13794] Rollins

Neutron Type	Auto Select		Vsh Choice:	GR - Linear		Sonic Eq.:	Time-Series	
Lithology:	Sandstone		PhiN sh:	0.164	fractions	Rw:	0.09	ohm-m
Rho ma:	2.67	gm/cc	Rho sh:	2.684	gm/cc	Rmf:	0.2	ohm-m
Dt ma:	51.3	us/ft	Dt sh:	95	us/ft	m:	1.85	
GR cl:	61		H20 Model:	Archie's		n:	2	
GR sh:	133		Deep Rsh:	5	ohm-m	Pressure:	1	psi
SP cl:	0		Shal Rsh:	5	ohm-m			
SP sh:	0		Porosity:	Density/Neutron				