BLANCO
Geological Services LLC

Scale 1:240 (5"=100') Imperial

Well Name: Margaux 11-1
Location: NW/NW Sec 1 T35S, R65W
Licence Number: 05-071-08639   **Region:** Purgatoire River
Spud Date: 12/15/05   **Drilling Completed:** 12/19/05
Surface Coordinates: 1154' FNL 472' FWL

Bottom Hole Coordinates:

Ground Elevation (ft): 7109'   **K.B. Elevation (ft):** 7114'
Logged Interval (ft): 260'   **To:** 1230'   **Total Depth (ft):** 1230'
Formation: Raton/Vermejo/Trinidad
Type of Drilling Fluid: Air/Mist

Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

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OPERATOR

Company: Pioneer Natural Resouces USA Inc.
Address: 1401 17th Street Suite 1200
Denver CO 80202

GEOLOGIST

Name: JoaQuin Gonzales / Lejon Gutierrez
Company: BLANCO Geological Services LLC
Address: PO Box 865
Trinidad CO 81020
(719) 846-6433

Rig
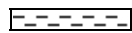
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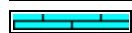
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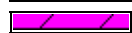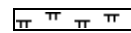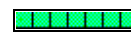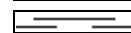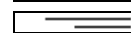
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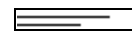
ROCK TYPES

Anhy	Clyst	Gyp	Mrlst	Shgy
Bent	Coal	Igne	Salt	Sltst
Brec	Congl	Lmst	Shale	Ss
Cht	Dol	Meta	Shcol	Till

ACCESSORIES

MINERAL
Anhy		Gyp	
Arggrn		Hvymin	
Arg		Kaol	
Bent		Marl	
Bit		Minxl	
Brecfrag		Nodule	
Calc		Phos	
Carb		Pyr	
Chtdk		Salt	
Chtlt		Sandy	
Dol		Silt	
Feldspar		Sil	
Ferrpel		Sulphur	
Ferr		Tuff	
Glau			

FOSSIL
Algae	
Amph	
Belm	
Bioclst	
Brach	
Bryozoa	
Cephal	
Coral	
Crin	
Echin	
Fish	
Foram	
Fossil	
Gastro	
Oolite	

Ostra	
Pelec	
Pellet	
Pisolite	
Plant	
Strom	

STRINGER
Anhy	
Arg	
Bent	
Coal	
Dol	
Gyp	
Ls	
Mrst	

Sltstrg	
Ssstrg	

TEXTURE
Boundst	
Chalky	
Cryxln	
Earthy	
Finexln	
Grainst	
Lithogr	
Microxln	
Mudst	
Packst	
Wackest	

OTHER SYMBOLS

POROSITY TYPE
Earthy	
Fenest	
Fracture	
Inter	
Moldic	
Organic	
Pinpoint	

Vuggy

SORTING
Well	
Moderate	
Poor	

OIL SHOWS
Even

ROUNDING
Rounded	
Subrnd	
Subang	
Angular	

Spotted	
Ques	
Dead	

INTERVALS
Core	
Dst	
Srfcsg	

Cv-v	
Cv-c	

EVENTS
Rft	
Sidewall	
Srfcsg	

Gamma Ray

ROP (min/ft) ————

Depth | Porosity | Lithology | Oil Shows | Geological Descriptions

24% 18% 12% 6%

TG

TG (units) ————

0	ROP (min/ft)	1

PWS Drilling Rig #33

Tag Cement @ 190'

8 5/8" Surface Casing Set @ 253.95'

20:36 12/17/2005 Began Drilling New Formation from 260' w/ Air Hammer

17:00 @ 190'   20:00 @ 198' 8'/hr

21:00 @ 279' 81'/hr

Margaux 11-1

Blanco Geological Services LLC

Logging Unit Operational @ 16:30 12/17/05

Began Sampling @ 260'

Raton Formation

SILTSTONE, gryish, mod indurated,platey, gritty, dull,

0	TG	2000

MSI MODEL TG TOTAL HYDROCARBON CCD/TCD

TG Scale 0-1000 Units

200

250

SILTSTONE, gryish, mod indurated, platey, gritty, dull, COAL STRINGERS

SILTSTONE, gry, mod induarated, platey, gritty, dull, COAL STRINGERS

SILTSTONE, gryish, mod indurated, platey, gritty, dull,

SANDSTONE, white, mg-fg, subrounded, mod sorted, mod consolidated, weakly calcareous, SILTSTONE Interbedded

SANDSTONE, white, mg-fg, subrounded, mod sorted, mod consolidated, mildly calcareous

SILTSTONE, gry, mod indurated, blockey, gritty, dull

SHALE, gry, firm, platey, earthy, dull

SILTSTONE, gry, mod indurated, blockey, gritty, dull

SHALE, brwnish-gry, firm, platey, earthy, dull, COAL STRINGERS

SHALE, gry, firm-soft, platey, earthy, dull, SILTSTONE Interbedded

COAL, black, bright, soft, blockey, conchodial

SANDSTONE, white, mg-fg, subangular, mod sorted, mod consolidated, weakly calcareous

COAL, black, bright, soft, blockey, conchodial

SILTSTONE, brwn, slightly indurated, platey, gritty, dull, COAL STRINGERS

SILTSTONE, brwn, slightly indurated, platey, gritty, dull, COAL STRINGERS

SHALE, brwn, firm, earthy, dull, COAL STRINGERS

SILTSTONE, brwn, slightly indurated, platey, gritty, dull, SANDSTONE Interbedded

300

350

400

450

500

ROP (min/ft)

0

1

22:00 @ 439'
159'/hr

LINE TEST

CG

CG

LINE TEST

CG

CG

CG

CG

CG

CG

TG

0

2000

SANDSTONE, clr-white, mg, subangular, mod sorted, mod consolidatedstrongly calcareous

COAL, black, bright, soft, blockey, conchodial

SILTSTONE, gry, mod indurated, blockey, gritty, dull

SILTSTONE, gry, mod indurated, blockey, gritty, dull

SANDSTONE, white, mg-fg, subangular, mod sorted, mod consolidated, strongly calcareous, SILTSTONE Interbedded

SILTSTONE, gry, mod indurated, blockey, gritty, dull, SANDSTONE Interbedded

SILTSTONE, gry, mod indurated, blockey, gritty, dull, COAL STRINGERS

SANDSTONE, clr-white, mg-fg, subangular, mod sorted, mod consolidated, strongly calcareous

SHALE, gry, firm, platey, earthy, dull

SILTSTONE, gry, mod indurated, blockey, gritty, dull, COAL STRINGERS

SILTSTONE, gry, mod indurated, blockey, gritty, dull

SILTSTONE, gry, mod indurated, blockey, gritty, dull

SANDSTONE, clr-white, subangular, mod sorted, mod consolidated, strongly calcareous

SILTSTONE, gry, mod indurated, fissile, gritty, earthy,

SANDSTONE, clr-white, subangular, mod sorted, mod consolidated, strongly calcareous

SILTSTONE, gry, mod indurated, fissile, gritty, earthy,

SANDSTONE, white, mg-fg, subrounded, mod sorted, mod consolidated, strongly calcareous

23:00 @ 573'
135'/hr

00:00 @ 704'
131'/hr

0   ROP (min/ft)   1

550

600

650

700

0   TG   2000

CG
CG
CG
CG
CG
CG
CG

SILTSTONE, brwnish-gry, mod indurated, platey, gritty, dull,

SANDSTONE, clr-white, mg, subangular, mod sorted, mod consolidated, mildly calcareous

CG

SANDSTONE, clr-white, mg, subangular, mod sorted, mod consolidated, weakly calcareous, SILTSTONE Interbedded

760' Vermejo Formation

750

SHALE, gry, firm, platey, gritty, dull, COAL STRINGERS

768' - 854' No TG Data

SILTSTONE, gry, mod indurated, blockey, gritty, dull, SANDSTONE Interbedded

SILTSTONE, gry, mod indurated, blockey, gritty, dull, COAL STRINGERS

SILTSTONE, gry, mod indurated, blockey, gritty, dull

0   ROP (min/ft)   1

800

0   TG   2000

SHALE, gry, firm, platey, earthy, dull

COAL, black, bright, soft, blockey, conchodial

SHALE, brwn, firm, platey, gritty, dull, SILTSTONE Interbedded

01:00 @ 830' 126'/hr

SILTSTONE, drk gry- slightly indurated, platey, gritty, dull

768' - 854' No TG Data

SILTSTONE, drk gry- slightly indurated, platey, gritty, dull

850

SHALE, brwn, firm, platey, gritty, dull, SILTSTONE Interbedded

CG

SANDSTONE, clr-white, subangular, mod sorted, mod consolidated, weakly calcareous, SILTSTONE Interbedded

CG

SILTSTONE, gry, mod indurated, platey, gritty, dull

900

SANDSTONE, clr-white, mg, subangular, mod sorted, mod consolidated, mildly calcareous

CG

SILTSTONE, drk gry, mod indurated, platey, gritty, dull

SILTSTONE, drk gry, mod indurated, platey, gritty, dull

Depth track
950

1000

1050

1100

1150

ROP track (left)
02:00 @ 959'
129'/hr

ROP (min/ft)
0   ROP (min/ft)   1

03:00 @ 1065'
109'/hr

**ROP Scale Change
0 - 2 min/ft**

Scale Change
ROP (min/ft)
0   2

**1071'-1087'
No ROP Data**

04:00 @ 1131'
66'/hr

Lithology descriptions
SANDSTONE, clr-white, subangular, mod sorted, mod consolidated, weakly calcareous, SILTSTONE Interbedded

SILTSTONE, drk gry, mod indurated, platey, gritty, dull

COAL, black, bright, soft, blockey, conchodial

SILTSTONE, drk gry, mod indurated, platey, gritty, dull, COAL STRINGERS

SANDSTONE, white, mg-fg, subrounded, mod sorted, mod consolidated, strongly calcareous

COAL, black, bright, soft, blockey, conchodial

SANDSTONE, white, mg-fg, subrounded, mod sorted, mod consolidated, strongly calcareous, SILTSTONE Interbedded

COAL, black, bright, soft, blockey, conchodial

SANDSTONE, white, mg-fg, subrounded, mod sorted, mod consolidated, strongly calcareous

SANDSTONE, white, mg-fg, subrounded, mod sorted, mod consolidated, strongly calcareous

SILTSTONE, drk gry, mod indurated, platey, gritty, dull

COAL, black, bright, soft, blockey, conchodial

SILTSTONE, drk gry, mod indurated, platey, gritty, dull

1100' Trinidad Sandstone

SANDSTONE, clr-white, fg, well sorted, wel consolidated, strongly calcareous

SANDSTONE, clr-white, fg, well sorted, wel consolidated, strongly calcareous

Gas track (right)
CG

CG

0   TG   2000

CG

CG

CG   9179 units

CG

CG

CG

CG

ROP (min/ft)

1200

SANDSTONE, clr-white, fg, well sorted, wel consolidated, strongly calcareous

CG

TG   2000

SANDSTONE, clr-white, fg, well sorted, wel consolidated, strongly calcareous

CG

1230' TD @ 00:38
12/19/05

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