



GEOSEARCH LOGGING INC.

Scale 1:1200 (1"=100') Imperial

Well Name: PIONEER NATURAL RESOURCES, (GREMLIN # 23-35)
Location: SEC: # 35, T-32S--R-66W----LAS ANIMAS CO, COLORADO
Licence Number: AFE: # 021879 Region: COTTONTAIL PASS
Spud Date: 10/31/2011 Drilling Completed: 11/03/2011
Surface Coordinates: 2,286' FSL & 1,774'FWL
NE/SW, Sec: # 35, T32S--R66W----MERIDIAN # 6
Bottom Hole VERTICAL HOLE ONLY
Coordinates: (COAL BEDS)
Ground Elevation (ft): 7,154' K.B. Elevation (ft): 7,158'
Logged Interval (ft): 515' To: 2,022' Total Depth (ft): 2,022'T.D.
Formation: Raton Coal, Raton Cong, Vermejo, Trinidad SandStones
Type of Drilling Fluid: (DRILLING WITH AERATED WATER), (7ppg.)

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

OPERATOR

Company: PIONEER NATURAL RESOURCES USA INC..
Address: 1401 17th ST. STE 1200
DENVER, COLORADO 80202
PHONE: (303) 675-2611 FAX: (303) 294-1251

GEOLOGIST

Name: Shannon Osterhout & Neal Dannemiller
Company: PIONEER NATURAL RESOURCES USA INC..
Address: 1401 17th ST. STE 1200
DENVER, COLORADO 80202
NEAL: (303) 675-2645 & SHANNON: (303) 675-2734

DRILLING CONTRACTOR

PIONEER RIG #3
FIELD #: 70830----MERIDIAN # 6
API # : 05-071-09769-00

WELL SITE GEOLOGIST

WAYNE NIX Cell----(870) 826-6197
BETTY NIX Cell----(870) 826-6196
GEOSEARCH LOGGING INC.
P.O. Box 6005
Edmond, OK. 73083-60
PHONE: (405) 340-5545
FAX: (405) 348-8303

COMPANY MEN

BILL VIGIL & DERRICK BERRY
PIONEER NATURAL RESOURCES USA INC..
 27000 HWY 12
 TRINIDAD, COLORADO 81082
 PHONE: (303) 675-2611

Additional Comments:

2 Manned Logging Service
Start Date: 10/31/2011
SET 8 5/8" SURFACE CASING
TO 497' ON THE 11/01/2011
(DRILLED WITH AERATED WATER)
T.D. @ 2,022' on the 11/03/2011
RELEASED:11/03/2011

ROCK TYPES

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

ACCESSORIES

FOSSIL		Ostra		Chtdk		Sandy		Ssstrg
	Algae		Pelec			Silt		
	Amph		Pellet			Sil		TEXTURE
	Belm		Pisolite			Sulphur		Boundst
	Bioclst		Plant			Tuff		Chalky
	Brach		Strom					Cryxln
	Bryozoa							Earthy
	Cephal	MINERAL				STRINGER		Finexln
	Coral		Anhy					Grainst
	Crin		Arggrn					Lithogr
	Echin		Arg					Microxln
	Fish		Bent					Mudst
	Foram		Bit					Packst
	Fossil		Brecfrag					Wackest
	Gastro		Calc					
	Oolite		Carb					
	</							

OTHER SYMBOLS

POROSITY		Organic		Spotted		Moderate		Subang	
	Earthy		Pinpoint		Ques		Poor		Angular
	Fenest		Vuggy		Dead				
	Fracture					ROUNDING		INTERVAL	
	Inter	OIL SHOW	SORTING		Rounded		Core		
	Moldic		Well		Subrnd		Dst		



