



GEOSEARCH LOGGING INC.

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

Well Name: PIONEER DJEMBE # 21-12
Location: SEC: 12, T33S - R68W-----LAS ANIMAS CO, COLORADO
Licence Number: AFE: # 020900 Region: RATON-MAXWELL
Spud Date: 08/25/2011 Drilling Completed: 08/27/2010
Surface Coordinates: 788' FNL & 2,203' FWL
NE/NW SEC: 12, T 33S---R 68W
Bottom Hole VERTICAL HOLE
Coordinates:
Ground Elevation (ft): 7,717' K.B. Elevation (ft): 7,721'
Logged Interval (ft): 450' To: 2,350' Total Depth (ft): 2,350'T.D.
Formation: Raton basin, Vermejo, Trinidad SandStones
Type of Drilling Fluid: 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: Beau Tinnin & Neal Dannemiller
Company: PIONEER NATURAL RESOURCES USA INC..
Address: 1401 17th ST. STE 1200
DENVER, COLORADO 80202
NEAL: (303) 675-2645 & BEAU: (303) 675-2734

DRILLING CONTRACTOR

PIONEER RIG #3
FIELD #: 70830
API # : 05-071-09766-00

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: 08/25/2011
SET 8 5/8" SURFACE CASING
TO 430' ON THE 08/25/2011
(DRILLED ON AERATED WATER)
T.D. @ 2,350' on the 08/27/2011
RELEASED:08/27/2011

ROCK TYPES

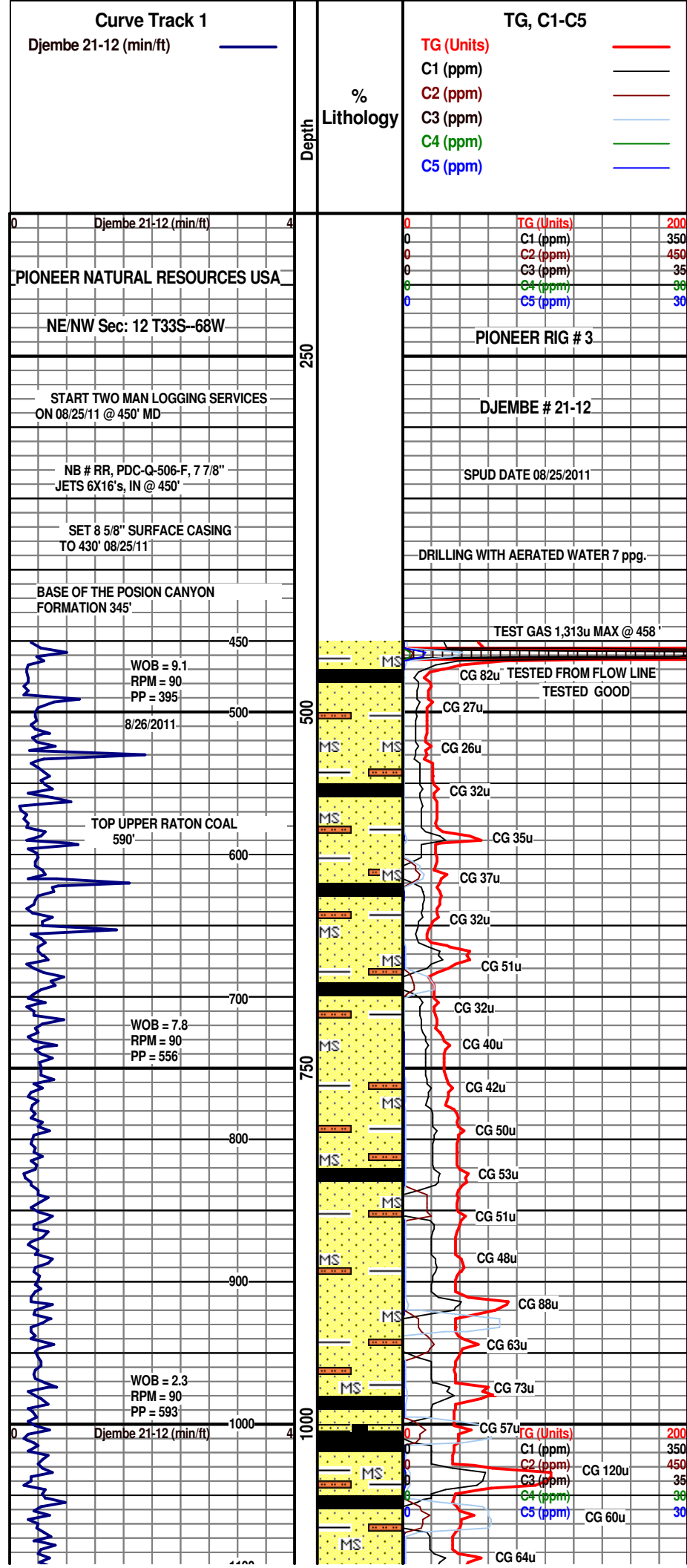
	Anhy		Clyst		Gyp		Mrlst		Shgy
	Bent		Coal		Igne		Salt		Sltst
	Brec		Congl		Lmst		Shale		Ss
	Cht		Dol		Meta		Shcol		Till

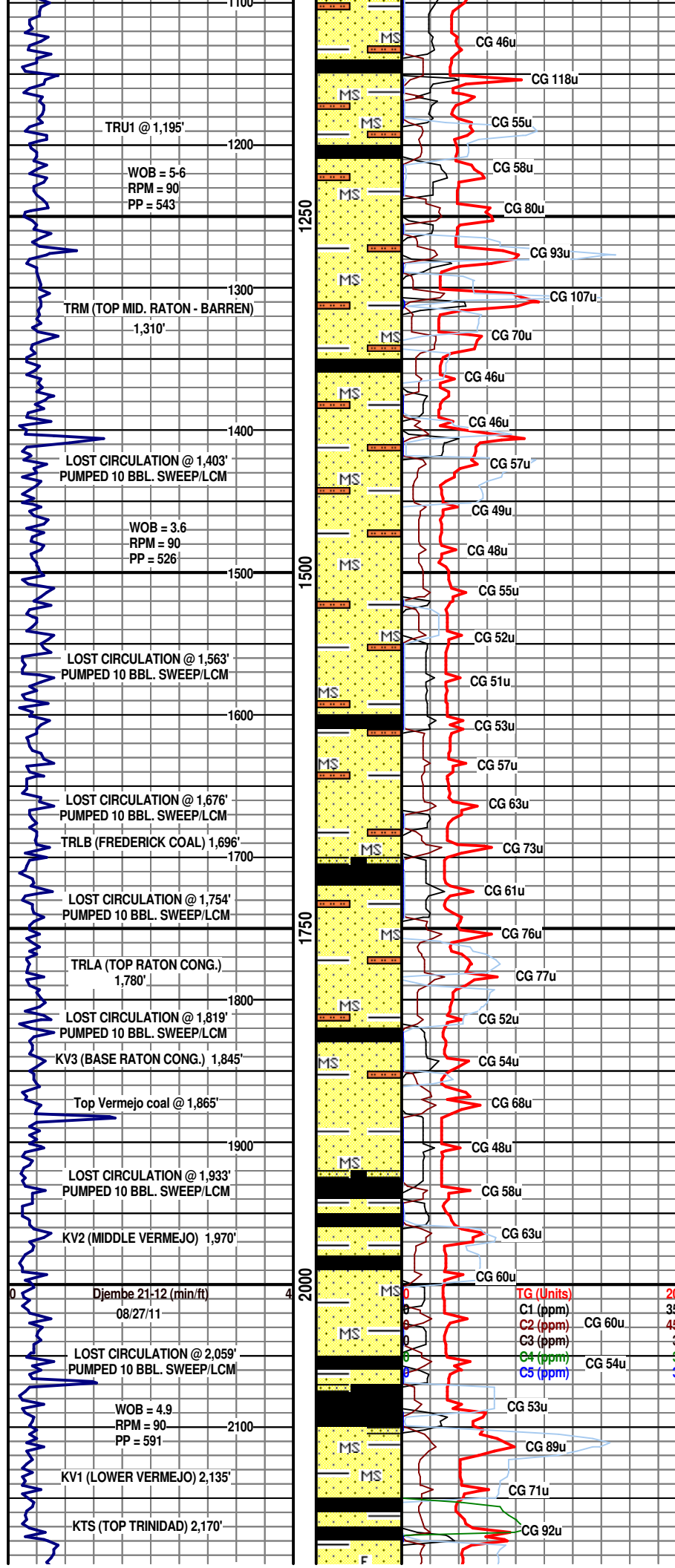
ACCESSORIES

FOSSIL		Ostra		Chtdk		Sandy		Ssstrg
	Algae		Pelec		Chtlt		Silt	TEXTURE
	Amph		Pellet		Dol		Sil	
	Belm		Pisolite		Feldspar		Sulphur	
	Bioclst		Plant		Ferrpel		Tuff	
	Brach		Strom		Ferr			
	Bryozoa	MINERAL			Glau	STRINGER		
	Cephal			Gyp			Anhy	
	Coral			Hvymin			Arg	
	Crin			Kaol			Bent	
	Echin			Marl			Coal	
	Fish			Minxl			Dol	
	Foram			Nodule			Gyp	
	Fossil			Phos			Ls	
	Gastro			Pyr			Mrst	
	Oolite			Salt			Sltstrg	

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		Even		Well		Subrnd		Dst





2200

LOST CIRCULATION @ 2,213'
PUMPED 10 BBL. HIGH VIS
SWEEP/LCM

2300

LOST CIRCULATION @ 2,344'
PUMPED 20 BBL. HIGH VIS
SWEEP/LCM

LOST CIRCULATION @ 2,350'
PUMPED 20 BBL. HIGH VIS
SWEEP/LCM

-----T.D. 2,350'

NB # RR, PDC-Q-506-F, 7 7/8" JETS
6X16's, IN @ 450' OUT @ 2,350'

2400

RUNNING E-LOGS @ 2,350'

08/27/11

2250

MS

MS

F

F

MS

MS

F

CG 73u

CG 61u

CG 74u

CG 70u

CG 63u

(PLEASE NOTE)

NO BOTTOM-UP GAS AFTER T.D.
LOST CIRCULATION
T.D. @ 2,350'

2300