

**Appendix G:
Coring and Core Analyses**

DCP MIDSTREAM
AGI # 1
LEA COUNTY, NEW MEXICO
U.S.A.
File: MD-01061

CORE ANALYSIS PROCEDURES

FOR

DCP MIDSTREAM

AGI # 1

LEA COUNTY, NEW MEXICO

The Rotary Sidewalls were delivered to OMNI Laboratories, Inc.

Gases from the Sidewalls were measured by Hot Wire Chromatography and reported in the Gas Units.

A brief Lithological Description of the Sidewalls was recorded.

A description of the Fluorescence of the Sidewalls was recorded.

Ultraviolet Light Photographs were taken of the Sidewalls for a permanent record.

Natural Light Photographs were taken of the Sidewalls for a permanent record.

Composite Photographs of the Sidewall End Trims were taken under Natural and Ultraviolet Light.

The Sidewalls were extracted utilizing the Dean Stark method.

The fluids were measured by the Dean Stark method.

Porosities were measured in a Boyle's Law Porosimeter utilizing Helium.

Permeabilities were measured in a Hassler Sleeve Permeameter utilizing Nitrogen at 300 psi confining pressure.

Test samples of a known permeability were measured before and after the Sidewall permeabilities were measured.

DCP MIDSTREAM
AGI # 1
LEA COUNTY, NEW MEXICO
U.S.A.
File: MD-01061

November 24, 2007

DCP MIDSTREAM
Attn: RUSSELL E. BENTLEY
11221 Richmond Avenue
Suite 107C
Houston, TX 77082

Attn: RUSSELL E. BENTLEY

RE: AGI # 1
Rotary Sidewall Core Analysis

Mr. BENTLEY:

The core analysis data from the above referenced well is enclosed in the following pages. All quality control data is enclosed in a separate section of the report. The data, results, and photographic negatives will be maintained in our files for your future reference. If you have any questions regarding our results or procedures, please do not hesitate to contact us. We appreciate the opportunity to analyze the core from the above referenced well and look forward to working with you again in the future.

DISTRIBUTION:

DCP MIDSTREAM
Attn: RUSSELL E. BENTLEY
11221 Richmond Avenue
Suite 107C
Houston, TX 77082
1 Copy of the report with photographs and 1 CD-ROM

DCP MIDSTREAM
Attn: LOU MAZZULLO
11221 Richmond Avenue
Suite 107C
Houston, TX 77082
1 Copy of the report and 1 CD-ROM

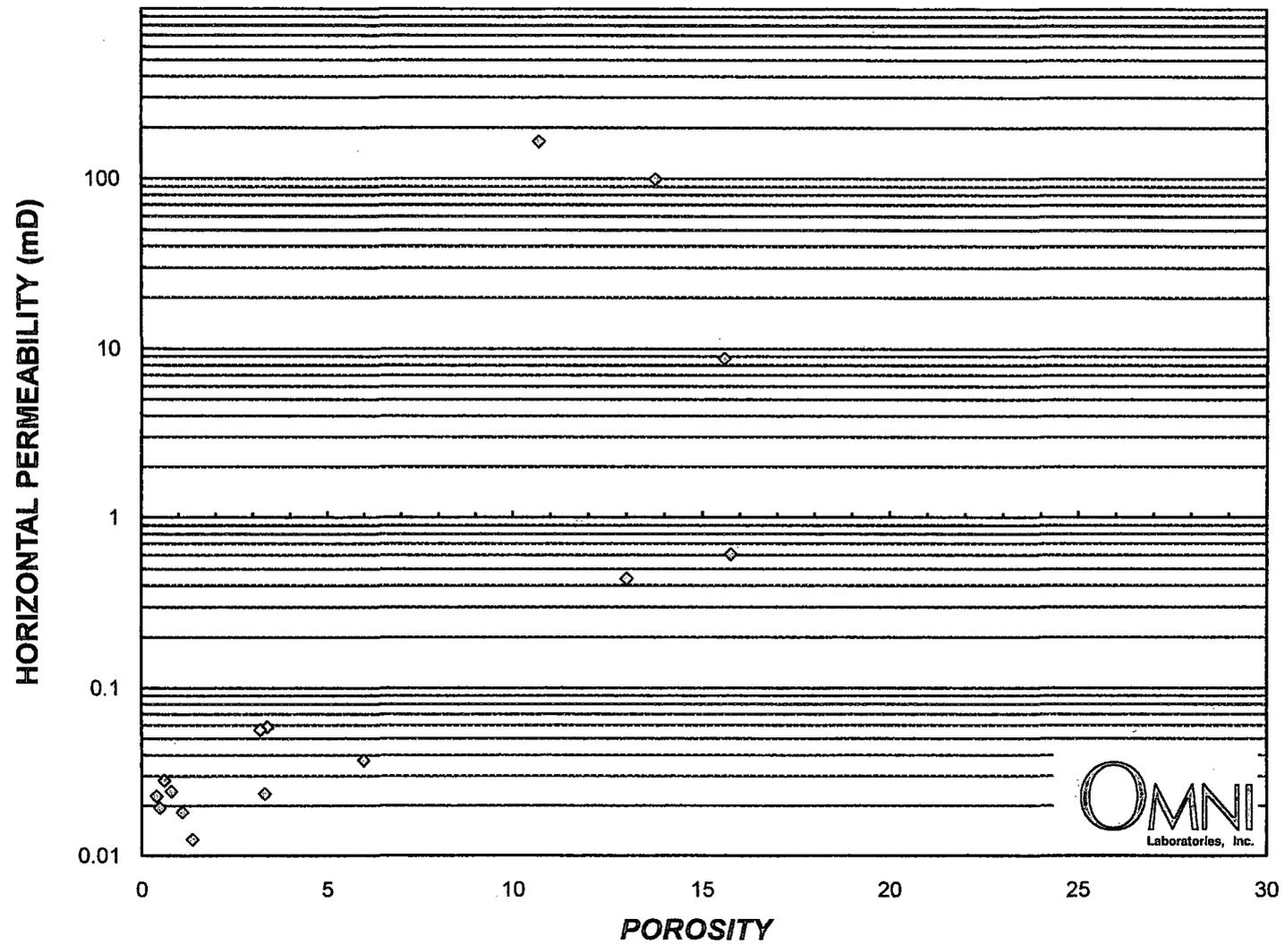
GEOLEX, INC.
Attn: ALBERTO GUTIERREZ
500 Marquette Ave., NW, Suite 1350
Albuquerque, NM 87102
1 Copy of the report and 1 CD-ROM

Sincerely,

Wayne Helms, General Manager
OMNI Laboratories, Inc.



DCP MIDSTREAM
AGI # 1





ROTARY SIDEWALL CORE ANALYSIS

DCP MIDSTREAM
 AGI # 1
 LEA COUNTY, NEW MEXICO

A.P.I. NUMBER :
 FIELD :
 LOCATION:

FILE NO. : MD-01061
 DATE : November 24, 2007
 ANALYSTS : WH, SB, PK, JR

DEAN STARK EXTRACTION

SAMPLE NO.	DEPTH ft	LENGTH cm	GRAIN DENSITY	POR %	PERM mD	SATURATIONS		GAS UNITS	FLUORESCENCE %	LITHOLOGY
						Sw	So			
1	5,125.0	1.867	2.69	16.5	tbfa	74.4	0.0	0	0	Ss opaq-gy vf-fgr sbrnd-sbang mod-sslty sc slty lam
2	5,192.0	1.868	2.68	15.8	0.606	63.2	13.3	0	60	DI yl-gld Ss opaq-gy vf-fgr sbrnd-sbang sslty
3	8,210.0	1.689	2.85	3.4	0.059	62.8	0.0	0	0	Dol crm-tn sslty sc anhy incl frac
4	8,278.0	1.816	2.86	3.3	0.024	67.7	0.0	0	0	Dol crm-tn sslty sc anhy incl frac
5	8,408.0	1.226	2.70	13.0	0.438	41.6	25.0	10	80	Br t yl-dl yl Ss opaq-gy vf-fgr sbrnd-sbang mod slty sc slty lam
6	8,418.0	2.057	2.85	6.0	0.037	58.1	0.0	0	0	Dol tn-brn sslty sc ppp-sml vug sc anhy incl
7	8,435.0	1.156	2.84	3.3	tbfa	64.5	0.0	0	0	Dol gy-brn sslty tr anhy tr foss frac
8	8,450.0	1.798	2.71	0.5	0.019	54.0	0.0	0	0	Ls dk brn-dk gy dns sslty foss sc cht nod
9	8,482.0	1.855	2.84	15.6	8.750	74.4	0.0	0	0	Dol tn-brn sslty abd ppp-vug
10	8,520.0	1.033	2.84	3.2	0.056	67.7	0.0	0	0	Dol tn-gy sslty tr pyr sty
11	8,718.0	1.171	2.72	1.4	tbfa	45.2	0.0	0	0	Ls tn-brn-pnk dns sslty foss frac sty
12	8,746.0	1.510	2.71	2.1	tbfa	89.1	0.0	0	0	Ls gy-dk gy dns sli-vslty sshy foss
13	8,777.0	1.452	2.74	0.6	0.028	26.9	0.0	0	0	Mf Ls tn-brn dns sslty foss
14	8,816.0	0.547	2.84	4.8	tbfa	40.5	0.0	0	0	Mf Dol gy-wht sslty tr sml vug frac
15	8,840.0	1.778	2.86	13.8	99.437	61.5	0.0	0	0	Mf Dol gy-wht sslty ppp-sml vug foss
16	8,900.0	1.439	2.85	6.0	tbfa	50.3	0.0	0	0	Dol gy-wht sslty sc ppp-sml vug foss frac
17	8,955.0	1.383	2.86	10.7	165.855	54.5	0.0	0	0	Mf Dol gy-wht sslty ppp-sml vug foss frac
18	8,985.0	2.020	2.70	1.1	0.018	54.5	0.0	0	0	Ls dk brn-dk gy sli-vslty foss sc slty lam
19	8,995.0	1.848	2.70	0.8	0.024	65.7	0.0	0	0	Ls dk brn-dk gy cgl dns sli-vslty foss sc slty lam

LITHOLOGICAL ABBREVIATIONS

Anhydrite (-ic)	anhy, anhyd	Filled	fd	Poor	pr
Anhydrite inclusion	A/I	Fine (-ly)	f, fnly	Pyrite	pyr
Bentonite (-ic)	bent	Fluorescence	flu	Quartz (-itic)	qtz
Black (-ish)	blk, blksh	Fossil (-iferous)	foss	Red	rd
Bleeding Oil	B/O	Fracture	frac	Round	rnd
Brecciated	brec	Fragments	frag	Residual Oil	So
Bright	brt	Friable	fri	Residual Water	Sw
Brittle	brit	Fusulinid	fus	Sample	Spl
Broken	brkn	Gilsonite	gil	Sandstone	Ss
Brown	brn	Gold	gld	Sandy	sdv
Buff	bf	Good	gd	Scattered	sc
Calcite (-ic)	calc, calctc	Grain (-s)	gr	Shaley	shy
Calcareous	calc	Granular	gran	Shale	sh
Carbonaceous	carb	Gray	gy	Shale parting	s/p
Cement	cmt	Gypsum	gyp	Silt (-y)	slt, slty
Chalk (-y)	chk, chky	Hair line(frac)	hl	Slight (-ly)	sli, s
Chert	cht	Halite	hal	Small	sml
Clay	cl	Inclusion	incl	Spotted (-y)	sp
Coal	c	Laminations (ated)	lam	Stringer	strgr
Coarse	crs	Large	lrg	Stylolite (-itic)	sty, styl
Conglomerate	cgl	Light	lt	Sucrosic	suc
Consolidated	consol	Limestone	ls	Sulphur	su
Contaminated	contam	Limey	lmy	Tan	tn
Crinoid (-al)	crin, crinal	Lithology	lith	Too broken	tbfa
Cross-bedded	x-bd	Medium	m	(for Analysis)	
Crystal (-line)	Xl, xln	Mineral Fluorescence	mf	Thin	thn
Dark	dk	Moderate	mod	Trace	Tr
Dense	dns	Mudcake	m/c	Very	v
Diameter	dia	No Show	N/S	Vertical	vert, vt
Dolomite (ic)	dol, dolm	Oolite (-itic)	ool	Vug (-gy)	vug
Dull	dl	Pale	pl		
Faint	fnt	Permeability	Perm, K		
Fair	fr	Pin-Point Porosity	ppp		



BCP MIDSTREAM
AGI # 1
LEA COUNTY, NEW MEXICO

Sample No.	Depth (ft)	Grain Density	Porosity %	Permeability mD	Saturations Sw So	Gas Units	Flu %
1	5,125.0	2.69	16.5	16a	74.4 0.0	0 0	0

Lithology : Ss opa-gy vf-lgr sbnd-sbng mod-salty sc silty lam
Length cm = 1.697

01-5125.jpg



BCP MIDSTREAM
AGI # 1
LEA COUNTY, NEW MEXICO

Sample No.	Depth (ft)	Grain Density	Porosity %	Permeability mD	Saturations Sw So	Gas Units	Flu %
2	5,192.0	2.89	15.8	0.61	83.2 13.3	0 0	0

Lithology : Ss opa-gy vf-lgr sbnd-sbng salty
Length cm = 1.698

02-5192.jpg

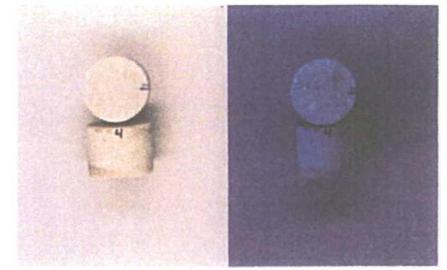


BCP MIDSTREAM
AGI # 1
LEA COUNTY, NEW MEXICO

Sample No.	Depth (ft)	Grain Density	Porosity %	Permeability mD	Saturations Sw So	Gas Units	Flu %
3	8,210.0	2.85	3.4	0.09	62.8 0.0	0 0	0

Lithology : Dol cm-lm salty sc anhy incl frac
Length cm = 1.689

03-8210.jpg



BCP MIDSTREAM
AGI # 1
LEA COUNTY, NEW MEXICO

Sample No.	Depth (ft)	Grain Density	Porosity %	Permeability mD	Saturations Sw So	Gas Units	Flu %
4	8,278.0	2.88	3.3	0.02	67.7 0.0	0 0	0

Lithology : Dol cm-lm salty sc anhy incl frac
Length cm = 1.816

04-8278.jpg

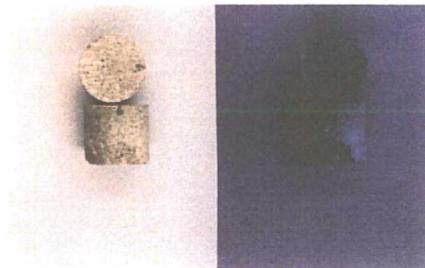


BCP MIDSTREAM
AGI # 1
LEA COUNTY, NEW MEXICO

Sample No.	Depth (ft)	Grain Density	Porosity %	Permeability mD	Saturations Sw So	Gas Units	Flu %
5	8,408.0	2.70	13.0	0.44	41.6 28.0	10 80	80

Lithology : Ss opa-gy vf-lgr sbnd-sbng mod silty sc silty lam
Length cm = 1.226

05-8408.jpg

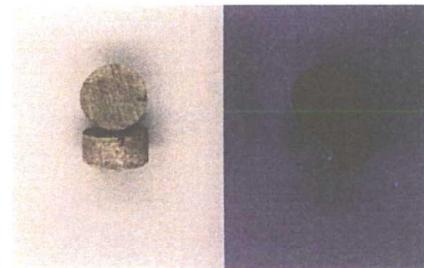


BCP MIDSTREAM
AGI # 1
LEA COUNTY, NEW MEXICO

Sample No.	Depth (ft)	Grain Density	Porosity %	Permeability mD	Saturations Sw So	Gas Units	Flu %
6	8,418.0	2.85	6.0	0.04	58.1 0.0	0 0	0

Lithology : Dol ln-bm salty sc ppp-sml vug sc anhy incl
Length cm = 2.057

06-8418.jpg

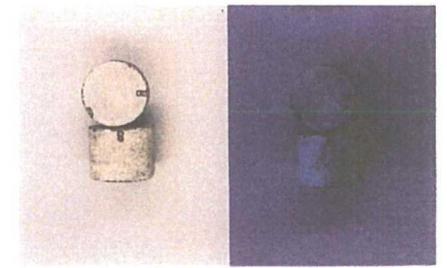


BCP MIDSTREAM
AGI # 1
LEA COUNTY, NEW MEXICO

Sample No.	Depth (ft)	Grain Density	Porosity %	Permeability mD	Saturations Sw So	Gas Units	Flu %
7	8,435.0	2.84	3.3	16a	64.5 0.0	0 0	0

Lithology : Dol gy-bm salty lr anhy lr foss frac
Length cm = 1.156

07-8435.jpg

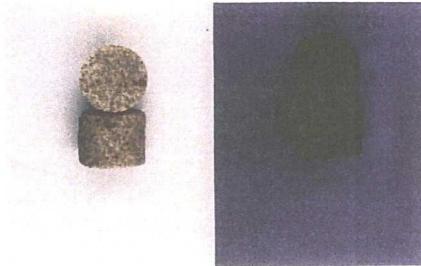


BCP MIDSTREAM
AGI # 1
LEA COUNTY, NEW MEXICO

Sample No.	Depth (ft)	Grain Density	Porosity %	Permeability mD	Saturations Sw So	Gas Units	Flu %
8	8,450.0	2.71	0.6	0.02	54.0 0.0	0 0	0

Lithology : Ls dk brn-dk gy dns salty loss sc chl nod
Length cm = 1.708

08-8450.jpg

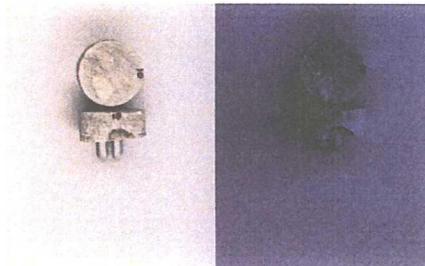


BCP MIDSTREAM
AGI # 1
LEA COUNTY, NEW MEXICO

Sample No.	Depth (ft)	Grain Density	Porosity %	Permeability mD	Saturations Sw	Gas Units	Flu %
9	8,482.0	2.84	15.0	8.75	74.4	0.0	0

Lithology: Dol in-brn sssty abd ppp-vug
Length cm = 1.855

09-8482.jpg

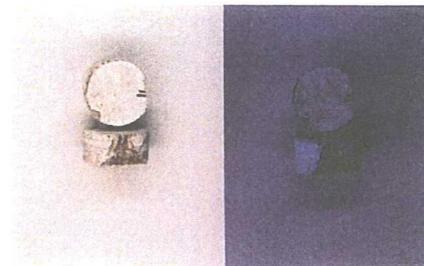


BCP MIDSTREAM
AGI # 1
LEA COUNTY, NEW MEXICO

Sample No.	Depth (ft)	Grain Density	Porosity %	Permeability mD	Saturations Sw	Gas Units	Flu %
10	8,520.0	2.84	3.2	0.05	67.7	0.0	0

Lithology: Dol in-gy sssty li pyr sty
Length cm = 1.933

10-8520.jpg

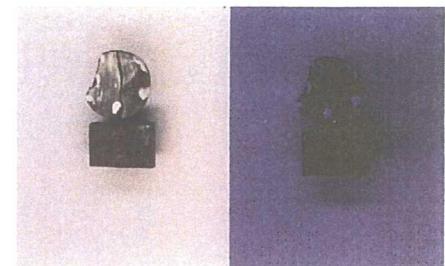


BCP MIDSTREAM
AGI # 1
LEA COUNTY, NEW MEXICO

Sample No.	Depth (ft)	Grain Density	Porosity %	Permeability mD	Saturations Sw	Gas Units	Flu %
11	8,718.0	2.72	1.4	1bfa	45.2	0.0	0

Lithology: Ls in-brn-pink dns sssty loss frac sty
Length cm = 1.171

11-8718.jpg

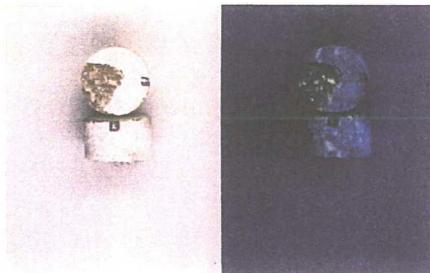


BCP MIDSTREAM
AGI # 1
LEA COUNTY, NEW MEXICO

Sample No.	Depth (ft)	Grain Density	Porosity %	Permeability mD	Saturations Sw	Gas Units	Flu %
12	8,746.0	2.71	2.1	1bfa	80.1	0.0	0

Lithology: Ls gy-dk gy dns sli-vssly sssty foss
Length cm = 1.510

12-8746.jpg

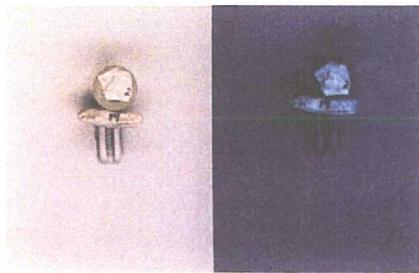


BCP MIDSTREAM
AGI # 1
LEA COUNTY, NEW MEXICO

Sample No.	Depth (ft)	Grain Density	Porosity %	Permeability mD	Saturations Sw	Gas Units	Flu %
13	8,777.0	2.74	0.6	0.03	26.9	0.0	0

Lithology: Ls in-brn dns sssty foss
Length cm = 1.452

13-8777.jpg



BCP MIDSTREAM
AGI # 1
LEA COUNTY, NEW MEXICO

Sample No.	Depth (ft)	Grain Density	Porosity %	Permeability mD	Saturations Sw	Gas Units	Flu %
14	8,816.0	2.84	4.8	1bfa	40.5	0.0	0

Lithology: Dol gy-wht sssty li smi-vug frac
Length cm = 0.547

14-8810.jpg

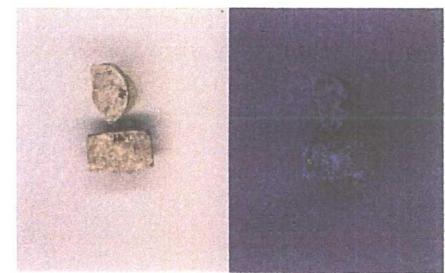


BCP MIDSTREAM
AGI # 1
LEA COUNTY, NEW MEXICO

Sample No.	Depth (ft)	Grain Density	Porosity %	Permeability mD	Saturations Sw	Gas Units	Flu %
15	8,840.0	2.86	13.8	09.44	61.5	0.0	0

Lithology: Dol gy-wht sssty ppp-smi vug foss
Length cm = 1.778

15-8840.jpg

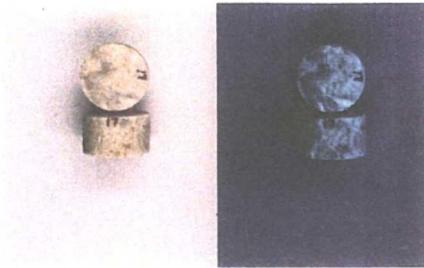


BCP MIDSTREAM
AGI # 1
LEA COUNTY, NEW MEXICO

Sample No.	Depth (ft)	Grain Density	Porosity %	Permeability mD	Saturations Sw	Gas Units	Flu %
16	8,900.0	2.85	8.0	1bfa	50.3	0.0	0

Lithology: Dol gy-wht sssty ss-ppp-smi vug foss frac
Length cm = 1.439

16-8900.jpg

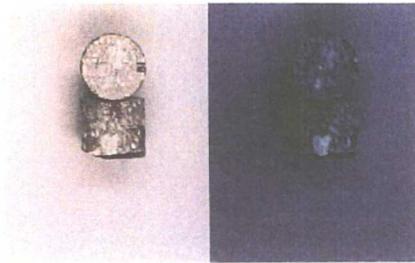


BCP MIDSTREAM
AGI # 1
LEA COUNTY, NEW MEXICO

Sample No.	Depth (ft)	Grain Density	Porosity %	Permeability mD	Saturations Sw	Gas Units	Flu %
17	8.985.0	2.89	10.7	105.66	54.6	0.0	0

Lithology: Dk gy-whl sally ppp-sml vug loss frac
Length cm = 1.383

17-8955.jpg



BCP MIDSTREAM
AGI # 1
LEA COUNTY, NEW MEXICO

Sample No.	Depth (ft)	Grain Density	Porosity %	Permeability mD	Saturations Sw	Gas Units	Flu %
18	8.985.0	2.70	1.1	0.02	54.5	0.0	0

Lithology: Ls dk brn-dk gy sil-vally loss sc stly lam
Length cm = 2.020

18-8985.jpg

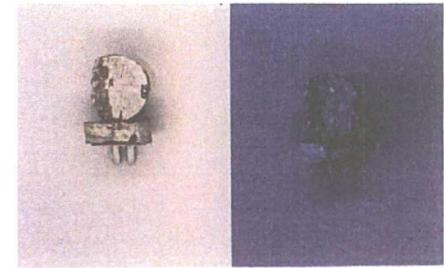


BCP MIDSTREAM
AGI # 1
LEA COUNTY, NEW MEXICO

Sample No.	Depth (ft)	Grain Density	Porosity %	Permeability mD	Saturations Sw	Gas Units	Flu %
19	8.995.0	2.70	0.8	0.02	65.7	0.0	0

Lithology: Ls dk brn-dk gy cgl dns sil vally loss sc stly lam
Length cm = 1.948

19-8995.jpg

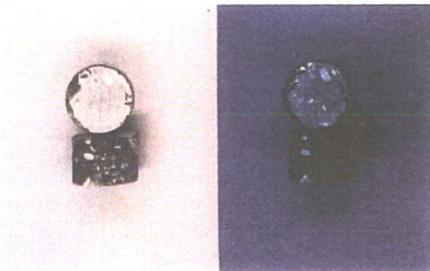


BCP MIDSTREAM
AGI # 1
LEA COUNTY, NEW MEXICO

Sample No.	Depth (ft)	Grain Density	Porosity %	Permeability mD	Saturations Sw	Gas Units	Flu %
20	9.050.0	2.70	0.4	0.02	70.5	0.0	0

Lithology: Ls dk brn-dk gy dns sally loss
Length cm = 0.990

20-9050.jpg

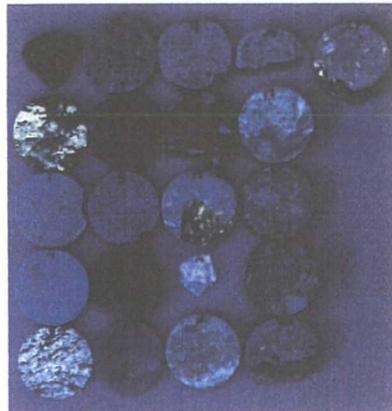


BCP MIDSTREAM
AGI # 1
LEA COUNTY, NEW MEXICO

Sample No.	Depth (ft)	Grain Density	Porosity %	Permeability mD	Saturations Sw	Gas Units	Flu %
21	9.065.0	2.71	1.4	0.01	64.1	0.0	0

Lithology: Ls dk brn-dk gy dns sil-vally loss sc stly lam
Length cm = 1.680

21-9055.jpg



comp-uv.jpg



comp-wl.jpg



ARDINAL LABORATORIES

PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

**ANALYTICAL RESULTS FOR
DCP MIDSTREAM
ATTN: RUSSELL BENTLEY
11221 RICHMOND AVE., SUITE 107C
HOUSTON, TX 77082
FAX TO:**

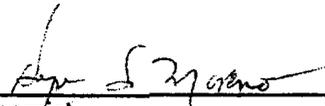
Receiving Date: 12/26/07
Reporting Date: 01/16/08
Project Number: NOT GIVEN
Project Name: LINAM
Project Location: LINAM RANCH AG1

Sampling Date: NOT GIVEN
Sample Type: GROUNDWATER
Sample Condition: INTACT
Sample Received By: ML
Analyzed By: HM

LAB NUMBER	SAMPLE ID	Ba (ppm)	Fe (ppm)	Sr (ppm)	Zn (ppm)
ANALYSIS DATE		01/11/08	01/11/08	01/11/08	01/11/08
H13978-1	FLOWBACK	< 10.0 *	240 *	203 *	1.37 *
H13978-2	DOWNHOLE	< 1.00	67.0	93.0	0.157
Quality Control		23.3	2.04	1.97	0.503
True Value QC		25.0	2.00	2.00	0.500
% Accuracy		93.2	102	98.5	101
Relative Percent Difference		1.3	0.4	1.7	1.2

METHODS: EPA 600/4-79-020	208.1	236.1	SW846-7780	289.1
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*Note: Analysis performed on 1:10 v:v aqueous extract. Result should therefore be considered an approximation.



Chemist

01-16-08

Date

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



ANALYTICAL RESULTS FOR
 DCP MIDSTREAM
 ATTN: RUSSELL BENTLEY
 11221 RICHMOND AVE., SUITE 107C
 HOUSTON, TX 77082
 FAX TO:

Receiving Date: 12/26/07
 Reporting Date: 01/07/08
 Project Owner: LINAM
 Project Name: LINAM RANCH AG1
 Project Location: NOT GIVEN

Sampling Date: NOT GIVEN
 Sample Type: GROUNDWATER
 Sample Condition: INTACT
 Sample Received By: ML
 Analyzed By: HM/KS

LAB NUMBER	SAMPLE ID	Na (mg/L)	Ca (mg/L)	Mg (mg/L)	K (mg/L)	Conductivity (uS/cm)	T-Alkalinity (mgCaCO ₃ /L)
ANALYSIS DATE:		01/02/08	01/02/08	01/02/08	01/02/08	12/27/07	12/27/07
H13978-1	FLOWBACK	23,854	1,360*	363*	3,670*	98,500	160*
H13978-2	DOWNHOLE	24,909	1,760*	424*	535*	94,800	324
Quality Control		NR	49.2	54.0	3.19	1,424	NR
True Value QC		NR	50.0	50.0	3.00	1,413	NR
% Recovery		NR	98.5	108	106	101	NR
Relative Percent Difference		NR	< 0.1	6.1	10.2	0.9	NR

METHODS:	SM3500-Ca-D	3500-Mg E	8049	120.1	310.1
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LAB NUMBER	SAMPLE ID	Cl ⁻ (mg/L)	SO ₄ (mg/L)	CO ₃ (mg/L)	HCO ₃ (mg/L)	pH (s.u.)	TDS (mg/L)
ANALYSIS DATE:		12/31/07	12/31/07	12/27/07	12/27/07	12/27/07	01/07/08
H13978-1	FLOWBACK	41,500*	2,720*	0	195*	6.46	72,480
H13978-2	DOWNHOLE	40,000*	4,145	0	395	6.73	73,412
Quality Control		500	27.8	NR	1000	7.06	NR
True Value QC		500	25.0	NR	1000	7.00	NR
% Recovery		100	111	NR	100	101	NR
Relative Percent Difference		< 0.1	17.4	NR	< 0.1	< 0.1	NR

METHODS:	SM4500-Cl-B	375.4	310.1	310.1	150.1	160.1
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* Note: Analyses performed on 1:10 v:v aqueous extracts.
 Results should therefore be considered approximate.

[Signature]
 Chemist

01-07-08
 Date

