

Appendix K:
Formation Fluid Analyses



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: 01/07/08
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

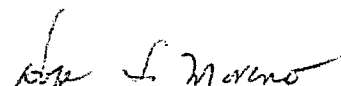
LAB NUMBER	SAMPLE ID	Na (mg/L)	Ca (mg/L)	Mg (mg/L)	K (mg/L)	Conductivity (u S/cm)	T-Alkalinity (mgCaCO ₃ /L)
ANALYSIS DATE:		01/02/08	01/02/08	01/02/08	01/02/08	12/27/07	12/27/07
H13978-1	FLOWBACK	23,854	1,360*	363*	3,670*	98,500	160*
H13978-2	DOWNHOLE	24,909	1,760*	424*	535*	94,800	324
Quality Control		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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		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.


Chemist

01-07-08
Date



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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.


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01-16-08
Date



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HOUSTON, TX 77082
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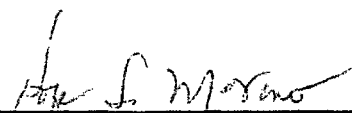
Receiving Date: 12/26/07
Reporting Date: 01/11/08
Project Number: NOT GIVEN
Project Name: LINAM
Project Location: LINAM RANCH AG1

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

LAB NUMBER	SAMPLE ID	NO ₃ -N (mg/L)	F (mg/L)
Analysis Date:		12/28/07	01/11/08
H13978-1	FLOWBACK	15.25	4.40 *
H13978-2	DOWNHOLE	0.62	6.63
Quality Control		2.11	1.05
True Value QC		2.00	1.00
% Recovery		106	105
Relative Percent Difference		14.2	4.9

METHOD: EPA 600/4-79-020	353.3	Hach8029
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*Note: Analysis performed on 1:10 v:v aqueous extract. Result should therefore be considered an approximation.



Chemist

01-11-08

Date



(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

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Relinquished By: <i>[Signature]</i>		Date: <i>11-26-07</i>	Received By: <i>[Signature]</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
Time: <i>8:50am</i>				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:
Relinquished By:		Date:	Received By:	REMARKS: email to: <i>aag@geolix.com</i> <i>russell@gaylabentley.com</i> <i>dbreeding@newtecheng.com</i> <i>281-496-2922</i>
Time:				
Delivered By: (Circle One)		Sample Condition	CHECKED BY:	
Sampler - UPS - Bus - Other:		Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/>	(Initials) <i>[Signature]</i>	

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