

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

I & E Hobbs

FORM APPROVED
OMB No. 1004-0135
Expires: January 31, 2004

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE- Other instructions on reverse side.

1. Type of Well
☐ Oil Well ☐ Gas Well ☒ Other

2. Name of Operator
Frontier Field Services

3a. Address
4200 Skelly Dr., St. 700, Tulsa OK 74135

3b. Phone No. (include area code)
918-388-8408

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

130' FSL, 1813' FEL Sec. 21, T 17 S, R 32 E, NMPM, Lea Co. NM
Acid Gas Injection Well, Unorthodox Location

5. Lease Serial No.
LC 029509B

6. If Indian, Allottee or Tribe Name
N/A

7. If Unit or CA/Agreement, Name and/or No.
N/A

8. Well Name and No.
Maljamar AGI #1

9. API Well No.
3002540420

10. Field and Pool, or Exploratory Area
Exploratory (Lower Wolfcamp)

11. County or Parish, State
Lea

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other formation fluid analysis
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

On October 3, 2012, the Maljamar AGI #1 was sampled for formation fluid chemistry from the injection zones in the Wolfcamp Formation from 9579-10130'. Two samples were analyzed and the results are summarized below and the laboratory report is attached.

ANALYTE	SAMPLE #1	SAMPLE #2 (ALL RESULTS IN mg/L unless otherwise indicated)
Alkalinity, Bicarbonate	195	317
Calcium	1560	1440
Alkalinity, Carbonate	ND	ND
Chloride	132000	126000
Conductivity (uS/cm)	376000	365000
Density (g/mL)	1.145	1.135
Magnesium	401	510
Potassium	325	340
Sodium	84400	80700
Sulfate	3340	3710
TDS	225000	213000
Alkalinity, Total	160	260
pH (pH units)	7.70	7.51

14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed)

Alberto A. Gutierrez, RG

Title Consultant to Frontier Field Services/AKA Energy

Signature

Date

10/22/2012

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title

Office



Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

JAN 22 2016



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

October 22, 2012

RUSSELL BENTLEY

P B ENERGY

16285 PARK TEN PLACE, SUITE 400

HOUSTON, TX 77084

RE: MALJAMAR AGI #1

Enclosed are the results of analyses for samples received by the laboratory on 10/03/12 16:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list on accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

P B ENERGY
16285 PARK TEN PLACE, SUITE 400
HOUSTON TX, 77084

Project: MALJAMAR AGI #1
Project Number: NONE GIVEN
Project Manager: RUSSELL BENTLEY
Fax To: (281) 589-5865

Reported:
22-Oct-12 12:07

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
#1	H202416-01	Water	03-Oct-12 00:00	03-Oct-12 16:55
#2	H202416-02	Water	03-Oct-12 00:00	03-Oct-12 16:55

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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 16285 PARK TEN PLACE, SUITE 400
 HOUSTON TX, 77084

 Project: MALJAMAR AGI #1
 Project Number: NONE GIVEN
 Project Manager: RUSSELL BENTLEY
 Fax To: (281) 589-5865

 Reported:
 22-Oct-12 12:07

#1

H202416-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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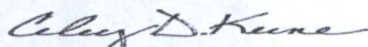
Cardinal Laboratories
Inorganic Compounds

Alkalinity, Bicarbonate	195	5.00	mg/L	1	2091506	HM	17-Oct-12	310.1	
Calcium	1560	1.60	mg/L	1	2091504	HM	17-Oct-12	SM3500Ca-D	
Alkalinity, Carbonate	ND	0.00	mg/L	1	2091506	HM	17-Oct-12	310.1	
Chloride*	132000	4.00	mg/L	1	2100807	CK	17-Oct-12	4500-Cl-B	
Conductivity*	376000	1.00	uS/cm	1	2101702	HM	16-Oct-12	120.1	
Density	1.145		g/mL	4	2101719	HM	17-Oct-12	SM 2710F	
Magnesium	401	1.00	mg/L	1	2091504	HM	17-Oct-12	SM3500Mg-E	
pH*	7.70	0.100	pH Units	1	2101702	HM	16-Oct-12	150.1	
Potassium	325	1.00	mg/L	1	2091504	HM	17-Oct-12	HACH 8049	
Sodium	84400	1.00	mg/L	1	2091504	HM	17-Oct-12	Calculation	
Sulfate*	3340	10.0	mg/L	1	2101204	AP	12-Oct-12	375.4	
TDS*	225000	5.00	mg/L	1	2101003	HM	10-Oct-12	160.1	
Alkalinity, Total*	160	4.00	mg/L	1	2091506	HM	24-Sep-12	310.1	

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

P B ENERGY
16285 PARK TEN PLACE, SUITE 400
HOUSTON TX, 77084

Project: MALJAMAR AGI #1
Project Number: NONE GIVEN
Project Manager: RUSSELL BENTLEY
Fax To: (281) 589-5865

Reported:
22-Oct-12 12:07

#2

H202416-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Alkalinity, Bicarbonate	317	5.00	mg/L	1	2091506	HM	17-Oct-12	310.1	
Calcium	1440	1.60	mg/L	1	2091504	HM	17-Oct-12	SM3500Ca-D	
Alkalinity, Carbonate	ND	0.00	mg/L	1	2091506	HM	17-Oct-12	310.1	
Chloride*	126000	4.00	mg/L	1	2100807	CK	17-Oct-12	4500-Cl-B	
Conductivity*	365000	1.00	uS/cm	1	2101702	HM	16-Oct-12	120.1	
Density	1.135		g/mL	4	2101719	HM	17-Oct-12	SM 2710F	
Magnesium	510	1.00	mg/L	1	2091504	HM	17-Oct-12	SM3500Mg-E	
pH*	7.51	0.100	pH Units	1	2101702	HM	16-Oct-12	150.1	
Potassium	340	1.00	mg/L	1	2091504	HM	17-Oct-12	HACH 8049	
Sodium	80700	1.00	mg/L	1	2091504	HM	17-Oct-12	Calculation	
Sulfate*	3710	10.0	mg/L	1	2101204	AP	12-Oct-12	375.4	
TDS*	213000	5.00	mg/L	1	2101003	HM	10-Oct-12	160.1	
Alkalinity, Total*	260	4.00	mg/L	1	2091506	HM	17-Oct-12	310.1	

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Analytical Results For:

 P B ENERGY
 16285 PARK TEN PLACE, SUITE 400
 HOUSTON TX, 77084

 Project: MALJAMAR AGI #1
 Project Number: NONE GIVEN
 Project Manager: RUSSELL BENTLEY
 Fax To: (281) 589-5865

 Reported:
 22-Oct-12 12:07

Inorganic Compounds - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
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Batch 2091504 - * DEFAULT PREP *****
Blank (2091504-BLK1)

Prepared: 13-Sep-12 Analyzed: 15-Sep-12

Calcium	ND	1.60	mg/L					
Magnesium	ND	1.00	mg/L					
Potassium	ND	1.00	mg/L					

LCS (2091504-BS1)

Prepared: 13-Sep-12 Analyzed: 15-Sep-12

Calcium	20.8		mg/L	20.0		104	80-120	
Magnesium	53.5		mg/L	50.0		107	80-120	
Potassium	3.10		mg/L	3.00		103	80-120	

Duplicate (2091504-DUP1)

Source: H202190-01

Prepared: 13-Sep-12 Analyzed: 15-Sep-12

Magnesium	486	1.00	mg/L		583		18.1	20
Potassium	800	1.00	mg/L		825		3.08	20
Calcium	2770	1.60	mg/L		2640		4.81	20

Batch 2091506 - General Prep - Wet Chem
Blank (2091506-BLK1)

Prepared & Analyzed: 12-Sep-12

Alkalinity, Carbonate	ND	0.00	mg/L					
Alkalinity, Bicarbonate	ND	5.00	mg/L					
Alkalinity, Total	ND	4.00	mg/L					

LCS (2091506-BS1)

Prepared & Analyzed: 12-Sep-12

Alkalinity, Carbonate	ND	0.00	mg/L				80-120	
Alkalinity, Bicarbonate	132	5.00	mg/L				80-120	
Alkalinity, Total	108	4.00	mg/L	100		108	80-120	

LCS Dup (2091506-BSD1)

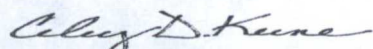
Prepared & Analyzed: 12-Sep-12

Alkalinity, Carbonate	ND	0.00	mg/L				80-120	20
Alkalinity, Bicarbonate	137	5.00	mg/L				80-120	3.72 20
Alkalinity, Total	112	4.00	mg/L	100		112	80-120	3.64 20

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Celey D. Keene, Lab Director/Quality Manager

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 16285 PARK TEN PLACE, SUITE 400
 HOUSTON TX, 77084

 Project: MALJAMAR AGI #1
 Project Number: NONE GIVEN
 Project Manager: RUSSELL BENTLEY
 Fax To: (281) 589-5865

 Reported:
 22-Oct-12 12:07

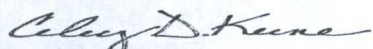
Inorganic Compounds - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2100807 - General Prep - Wet Chem										
Blank (2100807-BLK1)				Prepared & Analyzed: 08-Oct-12						
Chloride	ND	4.00	mg/L							
LCS (2100807-BS1)				Prepared & Analyzed: 08-Oct-12						
Chloride	100	4.00	mg/L	100		100	80-120			
LCS Dup (2100807-BSD1)				Prepared & Analyzed: 08-Oct-12						
Chloride	104	4.00	mg/L	100		104	80-120	3.92	20	
Batch 2101003 - Filtration										
Blank (2101003-BLK1)				Prepared & Analyzed: 09-Oct-12						
TDS	ND	5.00	mg/L							
LCS (2101003-BS1)				Prepared & Analyzed: 09-Oct-12						
TDS	251		mg/L	240		105	80-120			
Duplicate (2101003-DUP1)				Source: H202447-01 Prepared & Analyzed: 09-Oct-12						
TDS	5320	5.00	mg/L		5380			1.12	20	
Batch 2101204 - General Prep - Wet Chem										
Blank (2101204-BLK1)				Prepared & Analyzed: 12-Oct-12						
Sulfate	ND	10.0	mg/L							
LCS (2101204-BS1)				Prepared & Analyzed: 12-Oct-12						
Sulfate	16.7	10.0	mg/L	20.0		83.6	80-120			

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 P B ENERGY
 16285 PARK TEN PLACE, SUITE 400
 HOUSTON TX, 77084

 Project: MALJAMAR AGI #1
 Project Number: NONE GIVEN
 Project Manager: RUSSELL BENTLEY
 Fax To: (281) 589-5865

 Reported:
 22-Oct-12 12:07

Inorganic Compounds - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2101204 - General Prep - Wet Chem
LCS Dup (2101204-BSD1)

Prepared & Analyzed: 12-Oct-12

Sulfate	19.3	10.0	mg/L	20.0		96.6	80-120	14.4	20	
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Batch 2101702 - General Prep - Wet Chem
LCS (2101702-BS1)

Prepared & Analyzed: 16-Oct-12

Conductivity	496		uS/cm	500		99.2	80-120			
pH	7.08		pH Units	7.00		101	90-110			

Duplicate (2101702-DUP1)

Source: H202484-01

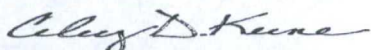
Prepared & Analyzed: 16-Oct-12

pH	7.27	0.100	pH Units		7.23			0.552	20	
Conductivity	5460	1.00	uS/cm		5450			0.183	20	

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Celey D. Keene, Lab Director/Quality Manager

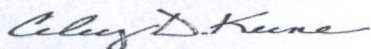
Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

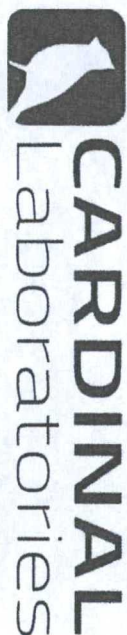
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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name: Stations - PB Energy		P.O. #:		BILL TO		ANALYSIS REQUEST																																	
Project Manager: Russell Bentley		Company:																																					
Address:		Attn:																																					
City: State: Zip:		Address:																																					
Phone #: Fax #:		City: State: Zip:																																					
Project #: Project Owner:		City: State: Zip:																																					
Project Name: Maljamar AGI #1		State: Zip:																																					
Project Location: Maljamar NM		Phone #:																																					
Sampler Name: Russell Bentley		Fax #:																																					
FOR LAB USE ONLY		PRESERV		SAMPLING																																			
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME		Cation / Anion		NH4 *		NO3 *		TDS		Density	
H200416		#1		1		1		✓																		10/3/12				✓		✓		✓		✓			
2		#2		1																																			