

1R - 496

WORKPLANS

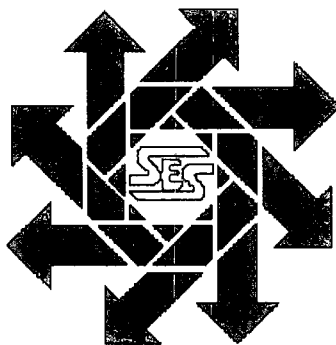
DATE:

10-2-08

1R496

**Paladin Energy Corporation
S. Vacuum SWD Line
Closure Plan
Unit D, Section 35, Township 18S, Range 35E
Lea County, New Mexico**

October 2, 2008



2008 OCT 27 PM 2 41

RECEIVED

Prepared for:

**Paladin Energy Corporation
4006 Dunkirk
Midland, Texas 79707**

By:

***Safety & Environmental Solutions, Inc.
703 E. Clinton
Hobbs, New Mexico 88240
(575) 397-0510***

TABLE OF CONTENTS

I. COMPANY CONTACTS	1
I. BACKGROUND	1
II. SURFACE AND GROUND WATER	1
III. SOILS	1
IV. WORK PERFORMED	1
V. CONCLUSIONS	2
VI. FIGURES & APPENDICES	2
Figure 1 – Vicinity Map	3
Figure 2 – Site Plan	4
Figure 3 – Monitor Well Logs	5
Appendix A – C-141	6
Appendix B – Analytical Results	7

I. Company Contacts

Sergio Contreras 505-397-0510 scontreras@sesi-nm.com
Mickey Horn 432-522-2162 paladinmid@suddenlink.net

II. Background

SESI was contracted to perform a site investigation at the S. Vacuum SWD Line. On February 28, 2008 a representative of DCPM notified Paladin that while remediating a leak at the DCPM's Eddy County Loop (COP line #12200), it was discovered that there was some soil, contaminated with chlorides, from Paladins' SWD line that crosses the DCPMs' line in the area. As reported in the Site Investigation Report dated July 16, 2008 installation of a monitor well onsite indicated groundwater contamination.

III. Surface and Ground Water

Monitor wells on site were measured on July 8, 2008 and the depth of groundwater was approximately 60'.

IV. Soils

The soils in the area are predominantly sand and sandy loam.

V. Work Performed

On July 7, 2008 SESI was onsite to install two additional monitor wells in order to determine the groundwater gradient at the site. These well were developed and water samples were retrieved from the wells. The samples were properly preserved and transported under Chain of Custody to Argon Laboratories, of Hobbs, New Mexico for analysis. The samples were analyzed for Chlorides (EPA Method 300.0), Total Dissolved Solids (TDS) (EPA Method 160.1), and Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX) (EPA Method 8021B). The results of the analysis were as follows:

Sample ID	Cl ⁻ mg/L	TDS mg/L	Benzene ug/L	Toluene ug/L	Ethyl Benzene ug/L	Total Xylenes ug/L
MW2	69	410	ND	ND	ND	ND
MW3	70	430	ND	ND	ND	ND

On July 21, 2008 an additional sample was retrieved from Monitor Well 1. The sample was properly preserved and transported under Chain of Custody to Argon Laboratories for analysis. The sample was analyzed for Chlorides, TDS, and BTEX. The results of the analysis were as follows:

Sample ID	Cl ⁻ mg/L	TDS mg/L	Benzene ug/L	Toluene ug/L	Ethyl Benzene ug/L	Total Xylenes ug/L
MW1	460	1700	ND	ND	ND	ND

After calculating the measurements from the three (30) wells the groundwater flow direction was determined to be southeast of the site.

On August 26, 2008 two (2) additional wells were installed directly down-gradient of the spill area. These well were developed and water samples were retrieved from the wells. The samples were properly preserved and transported under Chain of Custody to Argon Laboratories for analysis. The sample was analyzed for Chlorides, TDS, and BTEX. The results of the analysis were as follows:

Sample ID	Cl ⁻ mg/L	TDS mg/L	Benzene ug/L	Toluene ug/L	Ethyl Benzene ug/L	Total Xylenes ug/L
MW4	1700	3700	1.3	ND	ND	ND
MW5	2600	5400	ND	ND	ND	ND

V. Conclusions

After installation of the monitor wells it was found that the further away from the site the Chloride levels increased, which would indicate the contamination in these wells is not from this site. Aerial photographs indicate a large pit located at the South Vacuum Unit Well 35-3 that was drilled in 1958 and it is believed this pit could be the source of the contamination.

It is requested that the existing excavation be backfilled above the pipeline, lined with a 40-mil impervious liner, backfilled with clean soil and reseeded. The monitor wells will continue to be monitored and a new investigation conducted in the area of the old pit to determine if it is the source of the contamination.

VI. Figures & Appendices

Figure 1 – Vicinity Map
Figure 2 – Site Plan
Figure 3 – Log of Monitor Well
Appendix A – C-141
Appendix B – Analytical Results

Figure 1

Vicinity Map

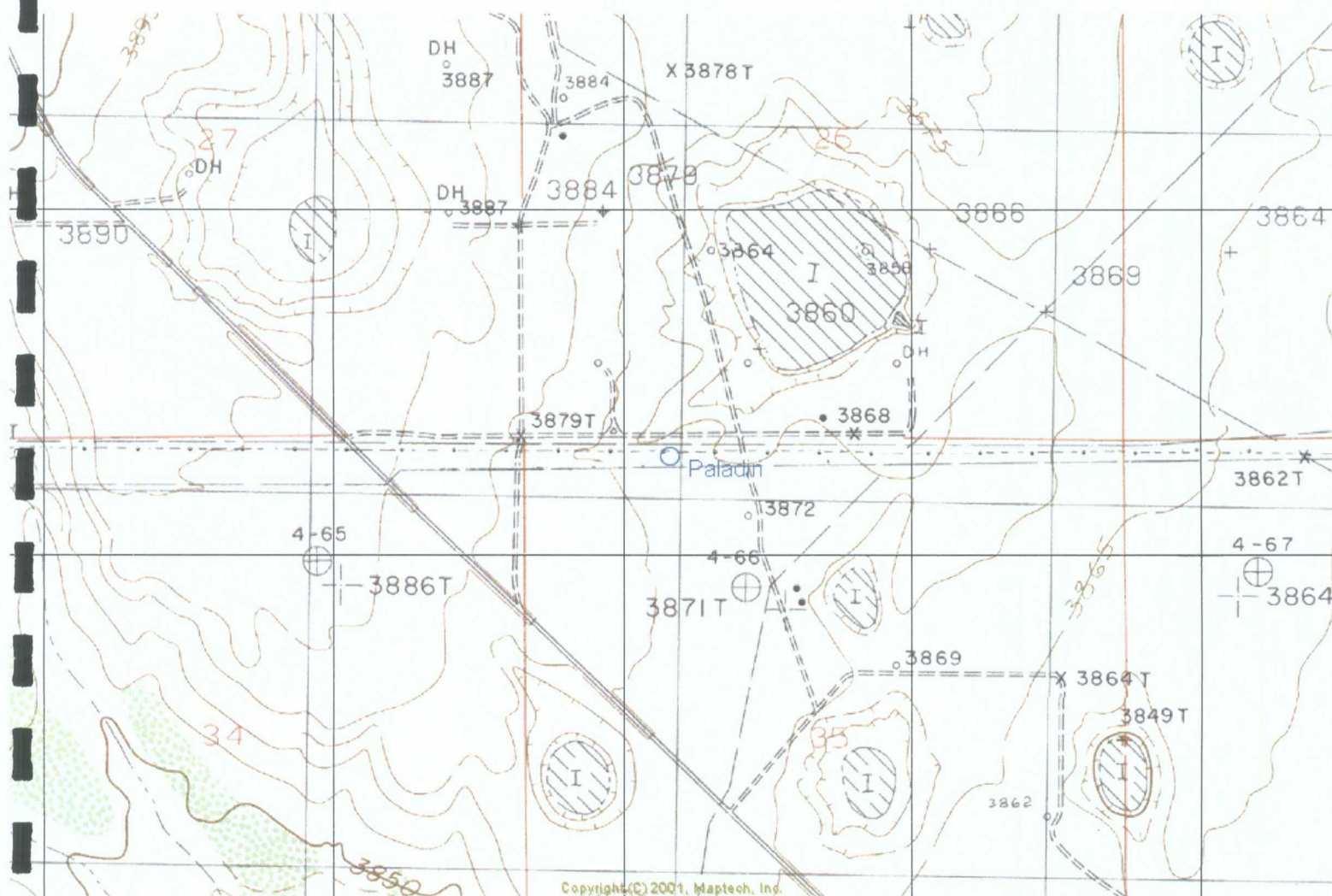
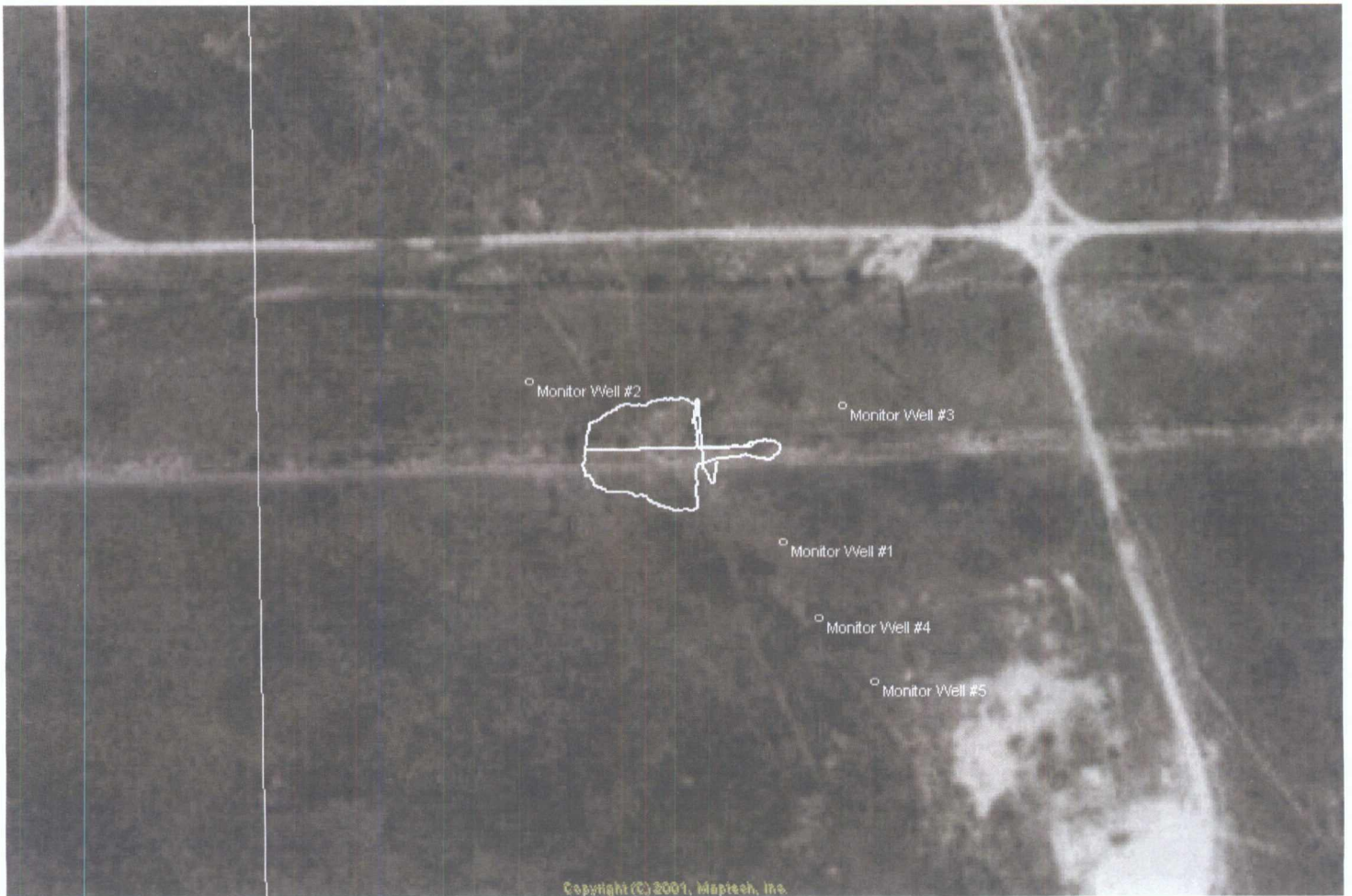


Figure 2
Site Plan



Copyright (C) 2001, Maptech, Inc.

Figure 3
Monitor Well Logs



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Solutions, Inc.**

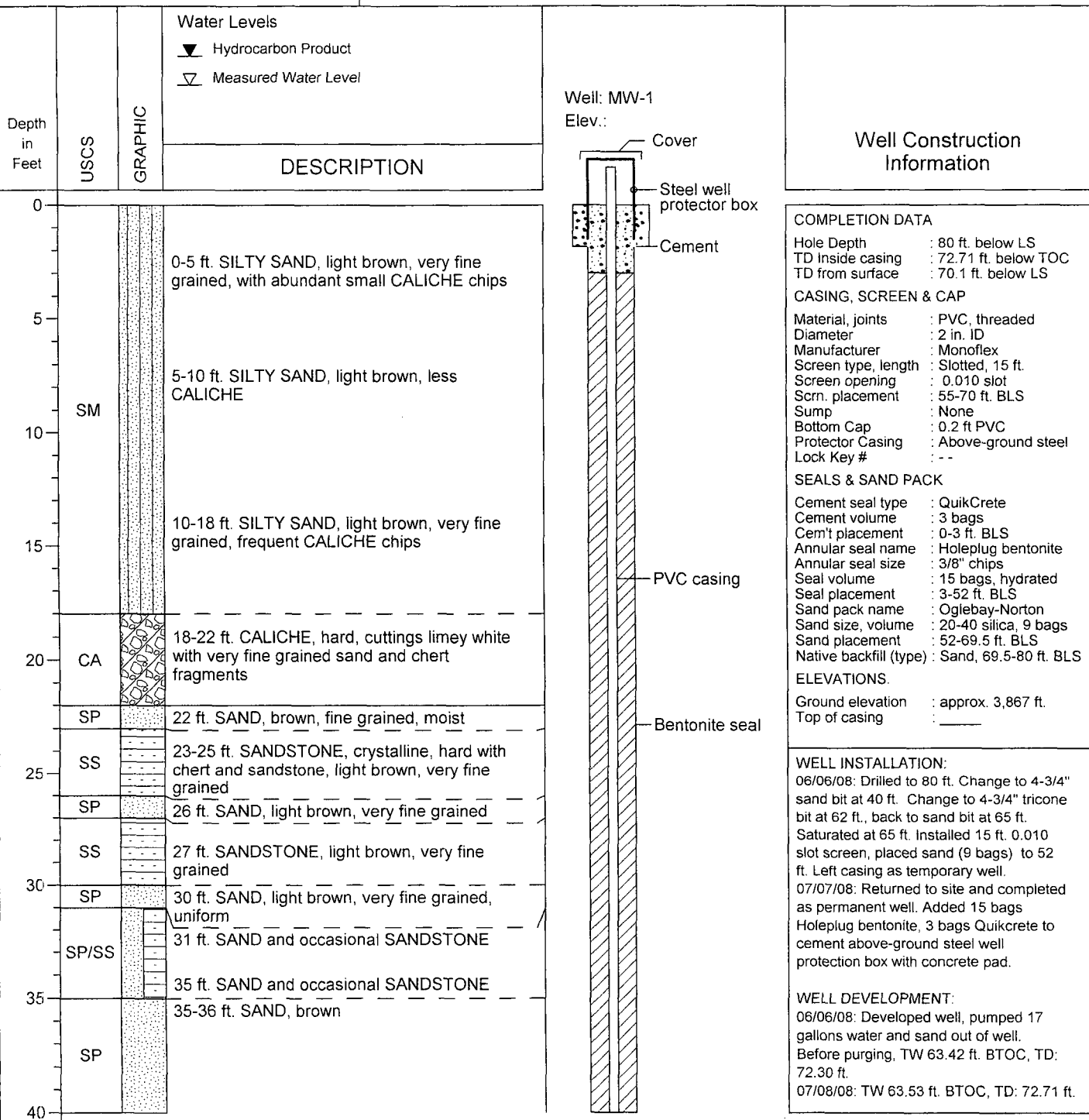
LOG OF BORING MW-1 (temp well TMW-2)

(Page 1 of 2)

Palidin Energy Corporation
Buckeye Water Release Investigation
NE/4 NW/4, Sec. 35, T18S, R35E
Lea County, New Mexico
N32° 42' 37.4", W103° 25' 52.9"

Date, Time Started : 06/06/08, 0850
Date, Time Completed : 06/06/08, 1035
Hole Diameter : 6-1/4", 4-3/4" tricone bits
Drilling Method : Air Rotary
Sample Method : Air cuttings

Drilling Equipment : Ingersoll-Rand TH-60
Drilled By : Harrison-Cooper, Lubbock
Logged By : D.G. Boyer, P.G., SESI
Company Rep. :
Survey By :



Notes:

Completed as a temporary well TMW-2; converted to permanent well MW-1
07/07/08. Developed 06/06/08; Sampled 06/06/08 and 06/10/08.

Field chloride test on sample, 1530 6/6/08: 510 ppm, lab result 480 mg/L

Field test on sample (following purging), 1315 6/10/08: 502 ppm, lab result 570 mg/L



**Safety & Environmental
Solutions, Inc.**

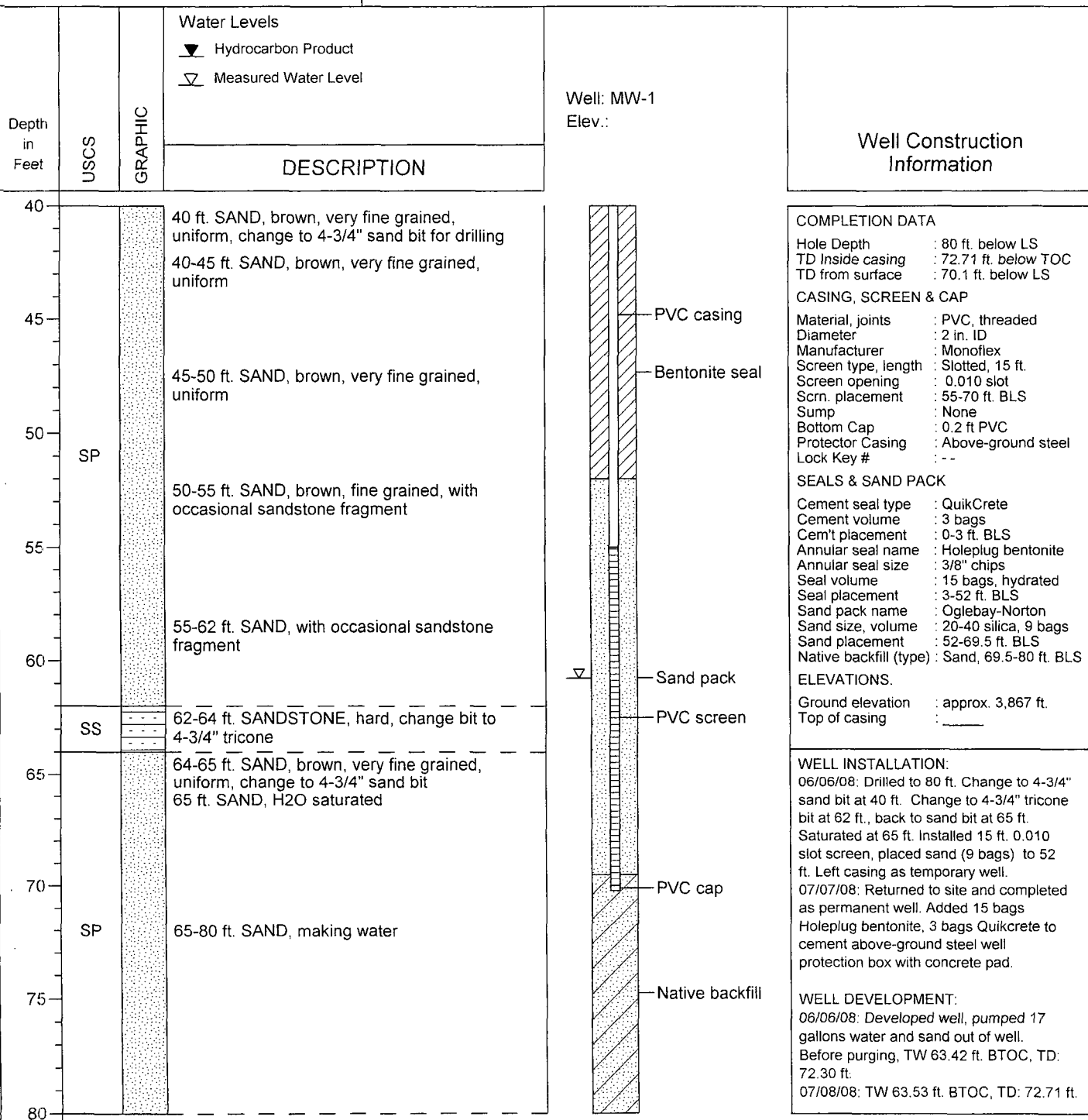
LOG OF BORING MW-1 (temp well TMW-2)

(Page 2 of 2)

Paladin Energy Corporation
Buckeye Water Release Investigation
NE/4 NW/4, Sec. 35, T18S, R35E
Lea County, New Mexico
N32° 42' 37.4", W103° 25' 52.9"

Date, Time Started : 06/06/08, 0850
Date, Time Completed : 06/06/08, 1035
Hole Diameter : 6-1/4", 4-3/4" tricone bits
Drilling Method : Air Rotary
Sample Method : Air cuttings

Drilling Equipment : Ingersoll-Rand TH-60
Drilled By : Harrison-Cooper, Lubbock
Logged By : D.G. Boyer, P.G., SESI
Company Rep. :
Survey By :



Notes:

Completed as a temporary well TMW-2; converted to permanent well MW-1 07/07/08. Developed 06/06/08; Sampled 06/06/08 and 06/10/08.

Field chloride test on sample, 1530 6/6/08: 510 ppm, lab result 480 mg/L
Field test on sample (following purging), 1315 6/10/08: 502 ppm, lab result 570 mg/L



**Safety & Environmental
Solutions, Inc.**

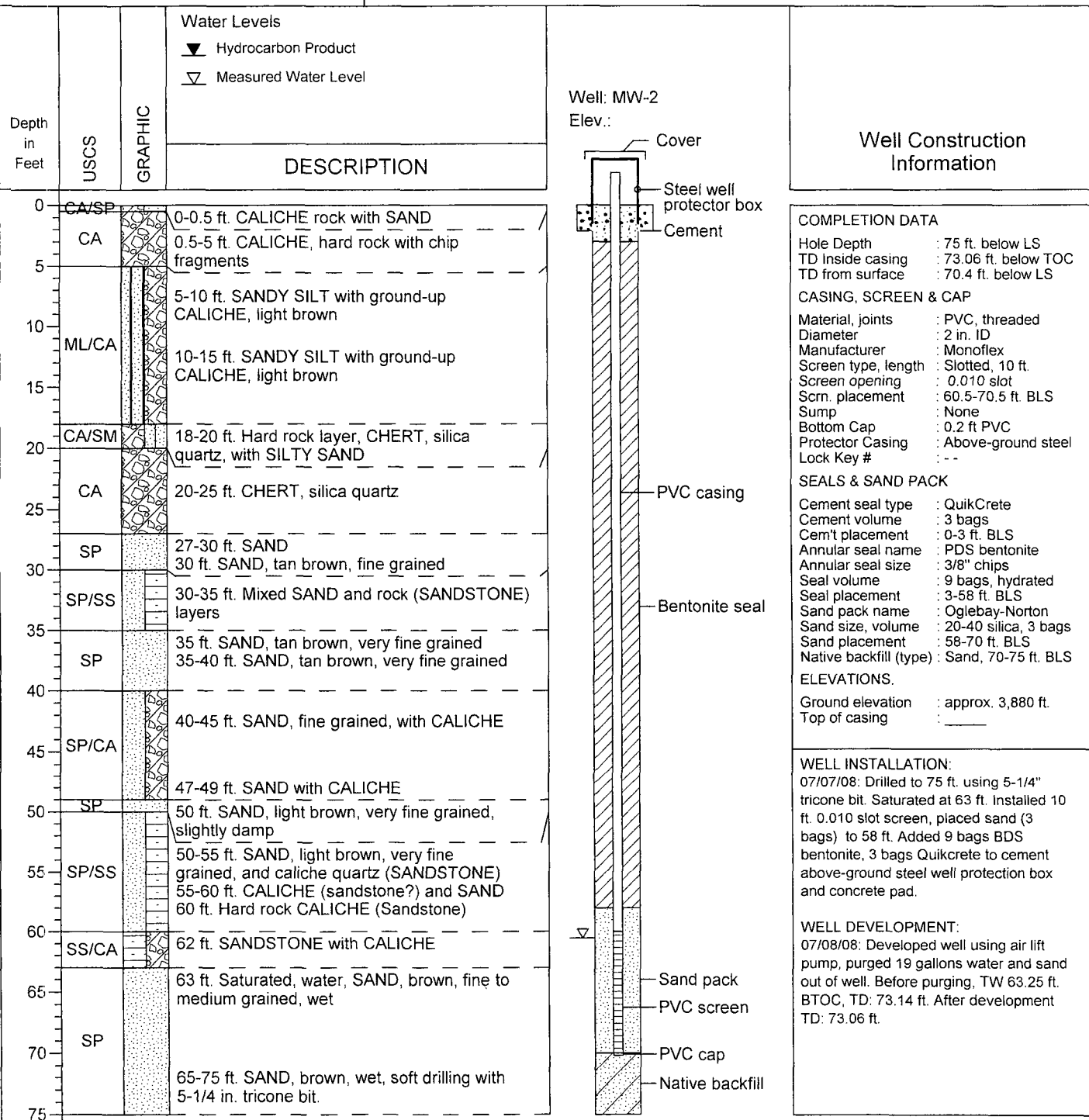
LOG OF BORING MW-2

(Page 1 of 1)

Paladin Energy Corporation
Buckeye Water Release Investigation
NE/4 NW/4, Sec. 35, T18S, R35E
Lea County, New Mexico
N32° 42' 39.3", W103° 25' 56.2"

Date, Time Started : 07/07/08, 0805
Date, Time Completed : 07/07/08, 0905
Hole Diameter : 6-1/4", 4-3/4" tricone bits
Drilling Method : Air Rotary
Sample Method : Air cuttings

Drilling Equipment : Ingersoll-Rand TH-60
Drilled By : Harrison-Cooper, Lubbock
Logged By : Isaac Kincaid, SESI
Company Rep. :
Survey By :



Notes:
Sampled 07/08/08. Field chloride test on sample, 0900: 61 ppm,
lab result 69 mg/L.



**Safety & Environmental
Solutions, Inc.**

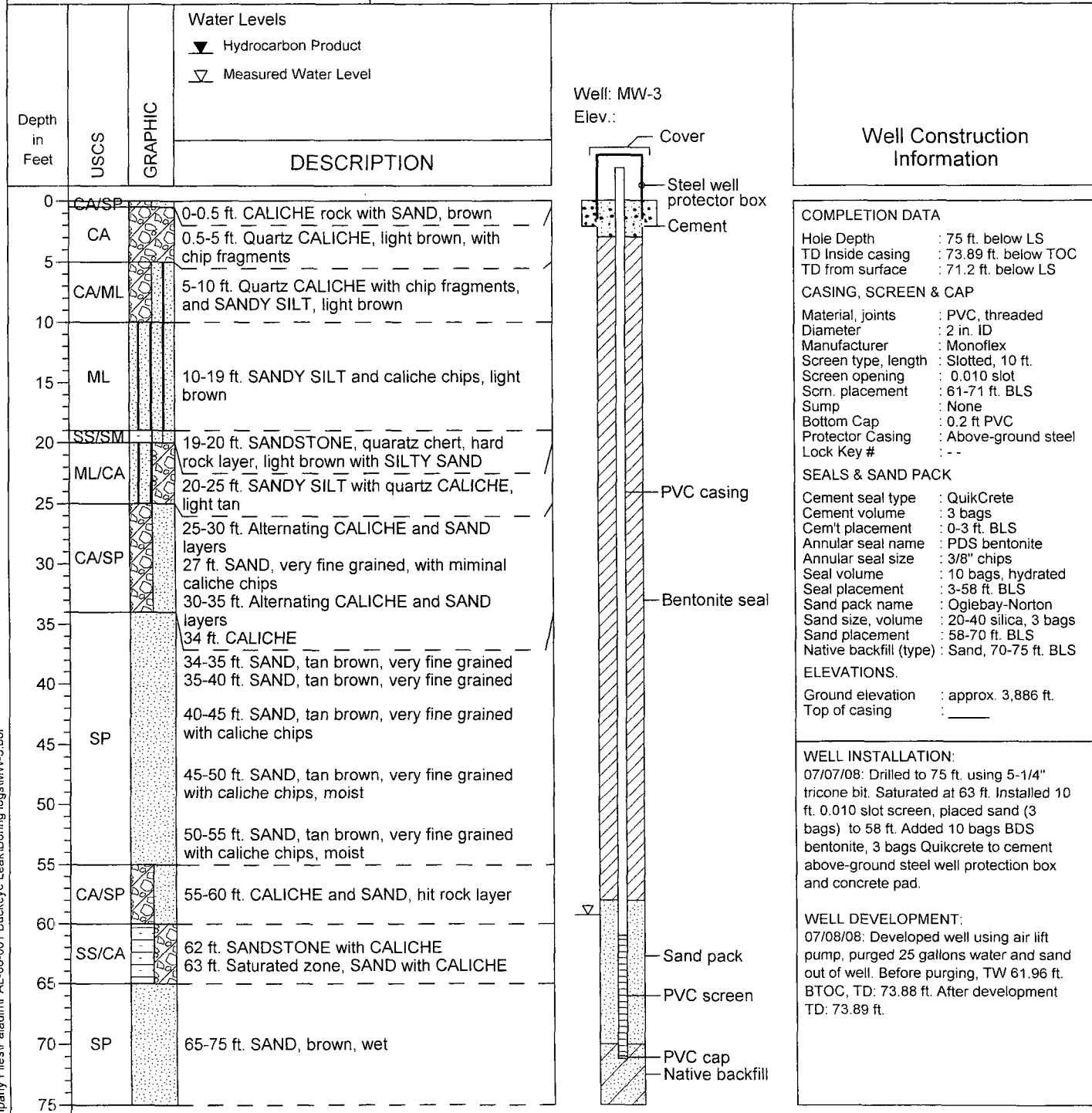
LOG OF BORING MW-3

(Page 1 of 1)

Paladin Energy Corporation
Buckeye Water Release Investigation
NE/4 NW/4, Sec. 35, T18S, R35E
Lea County, New Mexico
N32° 42' 39.0", W103° 25' 51.9"

Date, Time Started : 07/07/08, 0915
Date, Time Completed : 07/07/08, 1015
Hole Diameter : 6-1/4", 4-3/4" tricone bits
Drilling Method : Air Rotary
Sample Method : Air cuttings

Drilling Equipment : Ingersoll-Rand TH-60
Drilled By : Harrison-Cooper, Lubbock
Logged By : Isaac Kincaid, SESI
Company Rep. :
Survey By :



Notes:

Sampled 07/08/08. Field chloride test on sample, 1030: 61 ppm,
lab result 70 mg/L.



**Safety & Environmental
Solutions, Inc.**

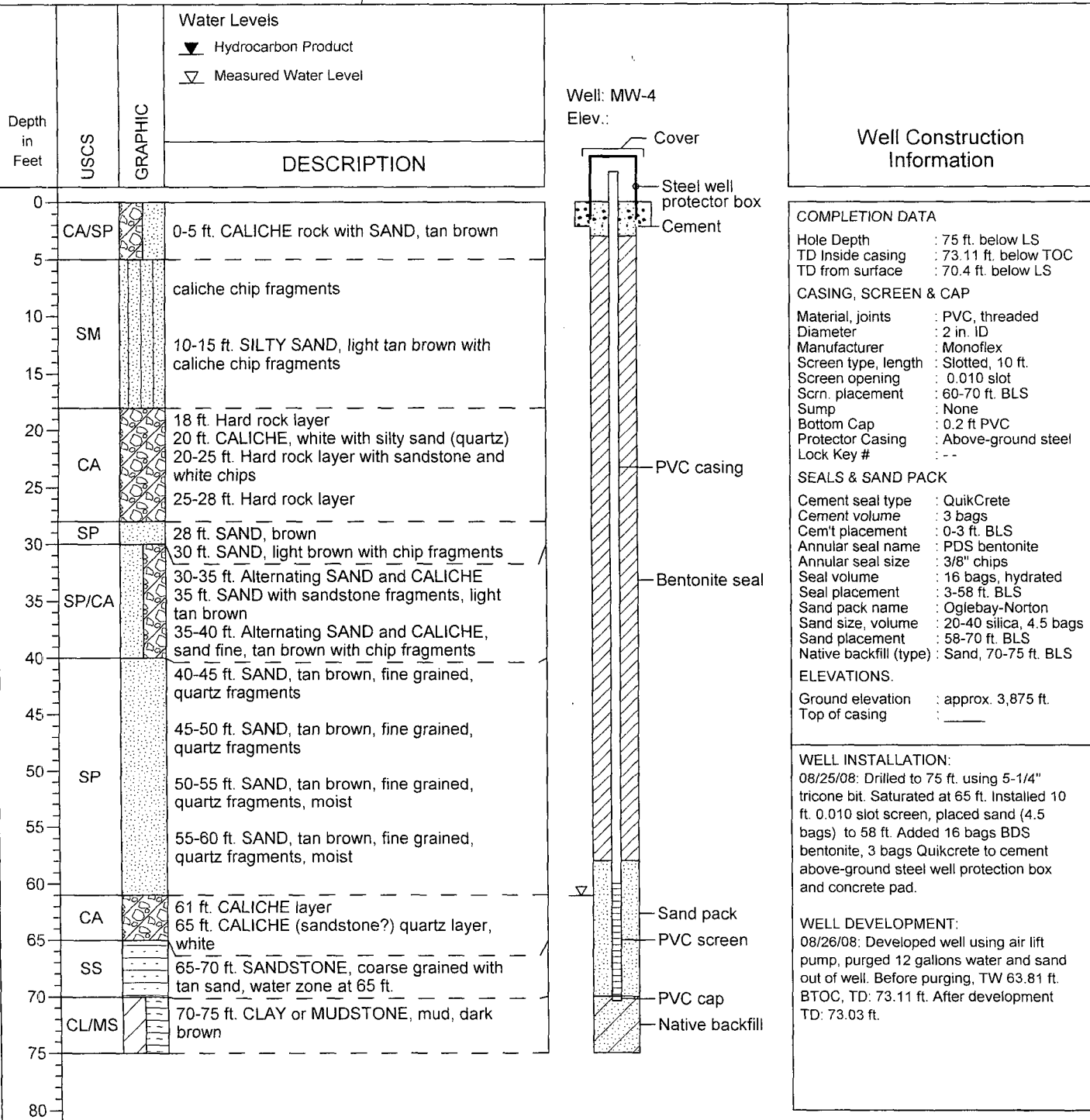
LOG OF BORING MW-4

(Page 1 of 1)

Paladin Energy Corporation
Buckeye Water Release Investigation
NE/4 NW/4, Sec. 35, T18S, R35E
Lea County, New Mexico
N32° 42' 36.6", W103° 25' 52.2"

Date, Time Started : 08/25/08, 0830
Date, Time Completed : 08/25/08, 0910
Hole Diameter : 6-1/4", 4-3/4" tricone bits
Drilling Method : Air Rotary
Sample Method : Air cuttings

Drilling Equipment : Ingersoll-Rand TH-60
Drilled By : Harrison-Cooper, Lubbock
Logged By : Isaac Kincaid, SESI
Company Rep. :
Survey By :



Notes:

Sampled 08/26/08. Field chloride test on sample, 1100: 2,084 ppm,
lab result 1,700 mg/L.



**Safety & Environmental
Solutions, Inc.**

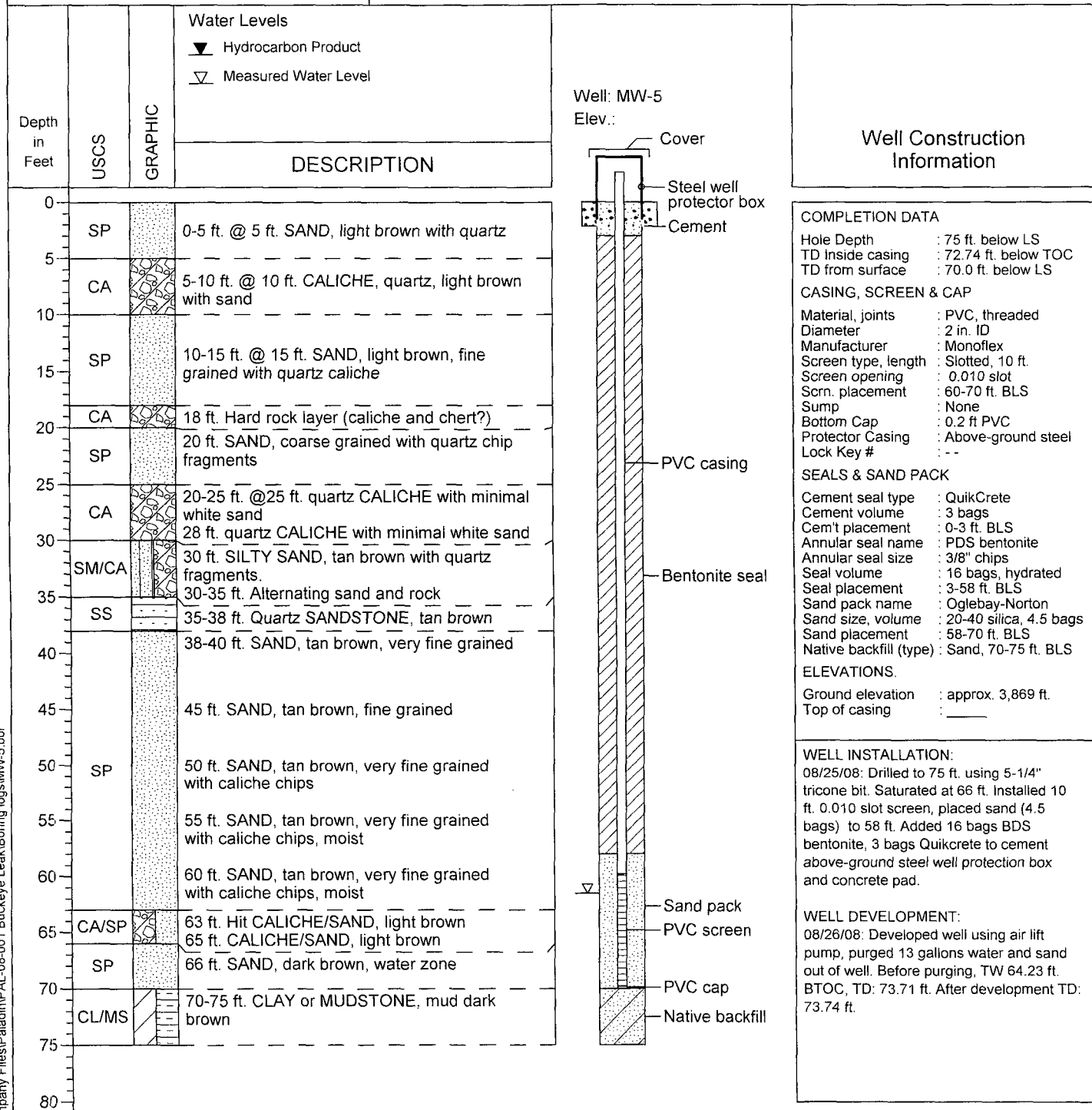
LOG OF BORING MW-5

(Page 1 of 1)

Paladin Energy Corporation
Buckeye Water Release Investigation
NE/4 NW/4, Sec. 35, T18S, R35E
Lea County, New Mexico
N32° 42' 35.8", W103° 25' 51.7"

Date, Time Started : 08/25/08, 1000
Date, Time Completed : 08/25/08, 1045
Hole Diameter : 6-1/4", 4-3/4" tricone bits
Drilling Method : Air Rotary
Sample Method : Air cuttings

Drilling Equipment : Ingersoll-Rand TH-60
Drilled By : Harrison-Cooper, Lubbock
Logged By : Isaac Kincaid, SESI
Company Rep. :
Survey By :



Notes:

Sampled 08/26/08. Field chloride test on sample, 1200: 3,749 ppm,
lab result 2,600 mg/L.

Appendix A

C-141

SV 35-1

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

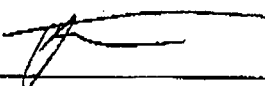
OPERATOR		<input checked="" type="checkbox"/> Initial Report	<input type="checkbox"/> Final Report
Name of Company: Paladin Energy Corp.		Contact: Mickey Horn	
Address: 10290 Monroe Drive, Ste. 301, Dallas, TX 75229		Telephone No.: Cell: 432-634-6599 Office: 432-522-2162	
Facility Name: S. Vacuum SWD line		Facility Type	
Surface Owner	Mineral Owner	Lease No.	

LOCATION OF RELEASE

Unit Letter	Section 35	Township 18	Range 35	Feet from the 300	North/South Line N	Feet from the 1400	East/West Line W	County LEA
-------------	---------------	----------------	-------------	----------------------	-----------------------	-----------------------	---------------------	---------------

Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release: Saltwater	Volume of Release: unknown	Volume Recovered
Source of Release: SWD Pipeline	Date and Hour of Occurrence	Date and Hour of Discovery 2/27/08, 12:30 PM
Was Immediate Notice Given? <input checked="" type="checkbox"/> YES <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? OCD Chris Williams by telephone	
By Whom? Johnnie Bradford of DCP Midstream, LP	Date and Hour 2/28/2008 10:00 AM	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> NO	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.* N/A		
Describe Cause of Problem and Remedial Action Taken.* On 2/28/08 a representative of DCPM notified Paladin that in cleaning up a leak on DCPM's Eddy County Loop line (COP line #12200) they had found some soil contaminated by chlorides. Paladin's SWD line crosses DCPM's line in the area		
Describe Area Affected and Cleanup Action Taken.* The area affected was DCPM's pipeline right-of-way just east of Hwy 238 approx 0.5 miles. DCPM to cleanup as per the attached Form c-141 of March 10, 2008. Paladin accepts no responsibility for DCPM's spill, but has agreed to reimburse DCPM for part of the reasonable remediation costs caused by excess chlorides.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOC rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOC marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOC acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		
Signature: 		OIL CONSERVATION DIVISION
Printed Name: George G. Fenton		Approved by District Supervisor:
Title: President & CEO	Approval Date:	Expiration Date:
E-mail Address: ggfenton@aol.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 2/21/08	Phone: 214-654-0132	

* Attach Additional Sheets If Necessary

Appendix B

Analytical Results

argon laboratories

29 July 2008

Bob Allen
Safety & Environmental Solutions, Inc.
703 E. Clinton Ave
Hobbs, NM 88240

RE: Paladine Buckeye Leak Project Data

Enclosed are the results for sample(s) received on 07/21/08 15:00 by Argon Laboratories. The sample(s) were analyzed according to instructions in accompanying chain-of-custody. Results are summarized on the following pages.

Please see quality control report for a summary of QC data pertaining to this project.

The sample(s) will be stored for 30 days after completion of analysis, then disposed of in accordance with State and Federal regulations. Sample(s) may be archived by prior arrangement.

Thank you for the opportunity to service the needs of your company.

Sincerely,


Hiram Cueto
Lab Manager

[illegible]

Argon Laboratories Sample Receipt Checklist

Client Name: SESI Date & Time Received: 07/21/08 15:00

Project Name: Paladine Buckeye Leak Client Project Number: PAL-08-001

Received By: R.E. Matrix: Water ☒ Soil ☐

Sample Carrier: Client ☐ Laboratory ☒ Fed Ex ☐ UPS ☐ Other ☐

Argon Labs Project Number: C807009

Shipper Container in good condition? Samples received in proper containers? Yes ☒ No ☐

N/A ☐ Yes ☒ No ☐ Samples received intact? Yes ☒ No ☐

Samples received under refrigeration? Yes ☒ No ☐ Sufficient sample volume for requested tests? Yes ☒ No ☐

Chain of custody present? Yes ☒ No ☐ Samples received within holding time? Yes ☒ No ☐

Chain of Custody signed by all parties? Yes ☒ No ☐ Do samples contain proper preservative?
N/A ☐ Yes ☒ No ☐

Chain of Custody matches all sample labels? Do VOA vials contain zero headspace?
Yes ☒ No ☐ (None submitted ☐) Yes ☒ No ☐

ANY "No" RESPONSE MUST BE DETAILED IN THE COMMENTS SECTION BELOW

Date Client Contacted: _____ Person Contacted: _____

Contacted By: _____ Subject: _____

Comments: _____

Action Taken: _____

ADDITIONAL TEST(S) REQUEST / OTHER

Contacted By: _____ Date: _____ Time: _____

Call Received By: _____

Comments: _____



2126 W. Marland Ave., Hobbs, NM 88240 (505)397-0295 Fax (505)397-0296

Safety & Environmental Solutions, Inc.

Project Number: PAL-08-001

703 E. Clinton Ave

Project Name: Paladine Buckeye Leak

Hobbs, NM 88240

Project Manager: Bob Allen

Work Order No.:

C807009

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW # 1	C807009-01	Water	07/21/08 09:00	07/21/08 15:00

Approved By

Argon Laboratories, Inc.

QC Officer

Safety & Environmental Solutions, Inc.

Project Number: PAL-08-001

703 E. Clinton Ave

Project Name: Paladine Buckeye Leak

Hobbs, NM 88240

Project Manager: Bob Allen

Work Order No.:

C807009

ANALYSIS REPORT

Analyte	Result	Reporting Limit	Units	Dilution	Analyzed	Method	Notes
MW # 1 (C807009-01) Water Sampled: 07/21/08 09:00 Received: 07/21/08 15:00							
Total Dissolved Solids	1700	10	mg/L	1	07/24/08	EPA 160.1	
Chloride	460	1.0	"	"	07/25/08	EPA 300.0	

Approved By

Argon Laboratories, Inc.

QC Officer

Safety & Environmental Solutions, Inc.

Project Number: PAL-08-001

703 E. Clinton Ave

Project Name: Paladine Buckeye Leak

Hobbs, NM 88240

Project Manager: Bob Allen

Work Order No.:

C807009

Volatile Organics by EPA Method 8021B

Analyte	Result	Reporting Limit	Units	Dilution	Analyzed	Method	Notes
MW # 1 (C807009-01) Water Sampled: 07/21/08 09:00 Received: 07/21/08 15:00							
Benzene	ND	0.5	ug/L	1	07/24/08	8021B	
Toluene	ND	0.5	"	"	"	"	
Ethylbenzene	ND	0.5	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	
Surr. Rec.:		98 %			"	"	

Approved By

Argon Laboratories, Inc.

QC Officer

Safety & Environmental Solutions, Inc.

Project Number: PAL-08-001

703 E. Clinton Ave

Project Name: Paladine Buckeye Leak

Hobbs, NM 88240

Project Manager: Bob Allen

Work Order No.:

C807009

ANALYSIS REPORT - Quality Control
Argon Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	RPD	Notes
---------	--------	--------------------	-------	----------------	------------------	------	-----	-------

Batch CR00120 - General Prep
Blank (CR00120-BLK1)

Prepared & Analyzed: 07/24/08

Total Dissolved Solids ND 10 mg/L

LCS (CR00120-BS1)

Prepared & Analyzed: 07/24/08

Total Dissolved Solids 980 mg/L 1000 98

LCS Dup (CR00120-BSD1)

Prepared & Analyzed: 07/24/08

Total Dissolved Solids 1010 mg/L 1000 101 3

Matrix Spike (CR00120-MS1)

Prepared & Analyzed: 07/24/08

Total Dissolved Solids 1020 mg/L 1000 102

Matrix Spike Dup (CR00120-MSD1)

Prepared & Analyzed: 07/24/08

Total Dissolved Solids 1000 mg/L 1000 100 2

Batch CR00121 - General Prep
Blank (CR00121-BLK1)

Prepared & Analyzed: 07/25/08

Chloride ND 1.0 mg/L

LCS (CR00121-BS1)

Prepared & Analyzed: 07/25/08

Chloride 4.90 mg/L 5.00 98

LCS Dup (CR00121-BSD1)

Prepared & Analyzed: 07/25/08

Chloride 5.05 mg/L 5.00 101 3

Matrix Spike (CR00121-MS1)

Prepared & Analyzed: 07/25/08

Chloride 5.10 mg/L 5.00 102

Matrix Spike Dup (CR00121-MSD1)

Prepared & Analyzed: 07/25/08

Chloride 5.00 mg/L 5.00 100 2

Approved By

Argon Laboratories, Inc.

QC Officer

Safety & Environmental Solutions, Inc.

703 E. Clinton Ave
Hobbs, NM 88240

Project Number: PAL-08-001

Project Name: Paladine Buckeye Leak

Project Manager: Bob Allen

Work Order No.:

C807009

Volatile Organics by EPA Method 8021B - Quality Control

Argon Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	RPD	Notes
---------	--------	--------------------	-------	----------------	------------------	------	-----	-------

Batch CR00122 - EPA 5030B

Blank (CR00122-BLK1)

Prepared & Analyzed: 07/24/08

Surrogate: <i>a,a,a</i> -Trifluorotoluene	54.0		ug/L	50.0		108		
Benzene	ND	0.5	"					
Toluene	ND	0.5	"					
Ethylbenzene	ND	0.5	"					
Xylenes (total)	ND	1.0	"					

LCS (CR00122-BS1)

Prepared & Analyzed: 07/24/08

Ethylbenzene	49.0		ug/L	50.0		98		
--------------	------	--	------	------	--	----	--	--

LCS Dup (CR00122-BSD1)

Prepared & Analyzed: 07/24/08

Ethylbenzene	47.0		ug/L	50.0		94	4	
--------------	------	--	------	------	--	----	---	--

Approved By

Argon Laboratories, Inc.

QC Officer

Safety & Environmental Solutions, Inc.

Project Number: PAL-08-001

703 E. Clinton Ave

Project Name: Paladine Buckeye Leak

Hobbs, NM 88240

Project Manager: Bob Allen

Work Order No.:

C807009

Notes and Definitions

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

Approved By

Argon Laboratories, Inc.

QC Officer

1131

(505) 397-0295 (505) 397-0296 info@argonlabs.com

[illegible]

Safety & Environmental Solutions, Inc.

Project Number: PAL-08-001

703 E. Clinton Ave

Project Name: Paladine Buckeye Leak

Hobbs, NM 88240

Project Manager: Bob Allen

Work Order No.:

C807004

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW #2	C807004-01	Water	07/08/08 09:00	07/08/08 14:10
MW #3	C807004-02	Water	07/08/08 10:30	07/08/08 14:10

Approved By

Argon Laboratories, Inc.

QC Officer

Safety & Environmental Solutions, Inc.

Project Number: PAL-08-001

703 E. Clinton Ave

Project Name: Paladine Buckeye Leak

Hobbs, NM 88240

Project Manager: Bob Allen

Work Order No.:

C807004

ANALYSIS REPORT

Analyte	Result	Reporting Limit	Units	Dilution	Analyzed	Method	Notes
MW #2 (C807004-01) Water Sampled: 07/08/08 09:00 Received: 07/08/08 14:10							
Total Dissolved Solids	410	10	mg/L	1	07/11/08	EPA 160.1	
Chloride	69	1.0	"	"	07/11/08	EPA 300.0	
MW #3 (C807004-02) Water Sampled: 07/08/08 10:30 Received: 07/08/08 14:10							
Total Dissolved Solids	430	10	mg/L	1	07/11/08	EPA 160.1	
Chloride	70	1.0	"	"	07/11/08	EPA 300.0	

Approved By

Argon Laboratories, Inc.

QC Officer

Safety & Environmental Solutions, Inc.

Project Number: PAL-08-001

703 E. Clinton Ave

Project Name: Paladine Buckeye Leak

Hobbs, NM 88240

Project Manager: Bob Allen

Work Order No.:

C807004

Volatile Organics by EPA Method 8021B

Analyte	Result	Reporting Limit	Units	Dilution	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	----------	--------	-------

MW #2 (C807004-01) Water Sampled: 07/08/08 09:00 Received: 07/08/08 14:10

Benzene	ND	0.5	ug/L	1	07/14/08	8021B	
Toluene	ND	0.5	"	"	"	"	
Ethylbenzene	ND	0.5	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	

Surr. Rec.: 96 %

MW #3 (C807004-02) Water Sampled: 07/08/08 10:30 Received: 07/08/08 14:10

Benzene	ND	0.5	ug/L	1	07/14/08	8021B	
Toluene	ND	0.5	"	"	"	"	
Ethylbenzene	ND	0.5	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	

Surr. Rec.: 97 %

Approved By

Argon Laboratories, Inc.

QC Officer

Safety & Environmental Solutions, Inc.

Project Number: PAL-08-001

703 E. Clinton Ave

Project Name: Paladine Buckeye Leak

Hobbs, NM 88240

Project Manager: Bob Allen

Work Order No.:

C807004

ANALYSIS REPORT - Quality Control
Argon Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	RPD	Notes
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Batch CR00107 - General Prep
Blank (CR00107-BLK1)

Prepared & Analyzed: 07/11/08

Chloride	ND	1.0	mg/L
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LCS (CR00107-BS1)

Prepared & Analyzed: 07/11/08

Chloride	5.80		mg/L	5.00	116
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LCS Dup (CR00107-BSD1)

Prepared & Analyzed: 07/11/08

Chloride	5.65		mg/L	5.00	113	3
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Matrix Spike (CR00107-MS1)

Prepared & Analyzed: 07/11/08

Chloride	5.00		mg/L	5.00	100
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Matrix Spike Dup (CR00107-MSD1)

Prepared & Analyzed: 07/11/08

Chloride	4.80		mg/L	5.00	96	4
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Batch CR00108 - General Prep
Blank (CR00108-BLK1)

Prepared & Analyzed: 07/11/08

Total Dissolved Solids	ND	10	mg/L
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LCS (CR00108-BS1)

Prepared & Analyzed: 07/11/08

Total Dissolved Solids	1070		mg/L	1000	107
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LCS Dup (CR00108-BSD1)

Prepared & Analyzed: 07/11/08

Total Dissolved Solids	1050		mg/L	1000	105	2
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Matrix Spike (CR00108-MS1)

Prepared & Analyzed: 07/11/08

Total Dissolved Solids	970		mg/L	1000	97
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Matrix Spike Dup (CR00108-MSD1)

Prepared & Analyzed: 07/11/08

Total Dissolved Solids	980		mg/L	1000	98	1
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Approved By

Argon Laboratories, Inc.

QC Officer

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Work Order No.:

C807004

Volatile Organics by EPA Method 8021B - Quality Control
Argon Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	RPD	Notes
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Batch CR00109 - EPA 5030B
Blank (CR00109-BLK1)

Prepared & Analyzed: 07/14/08

Surrogate: <i>a,a,a</i> -Trifluorotoluene	50.0		ug/L	50.0		100		
Benzene	ND	0.5	"					
Toluene	ND	0.5	"					
Ethylbenzene	ND	0.5	"					
Xylenes (total)	ND	1.0	"					

LCS (CR00109-BS1)

Prepared & Analyzed: 07/14/08

Benzene	45.5		ug/L	50.0		91		
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LCS Dup (CR00109-BSD1)

Prepared & Analyzed: 07/14/08

Benzene	47.5		ug/L	50.0		95	4	
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Approved By

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703 E. Clinton Ave

Hobbs, NM 88240

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Project Manager: Bob Allen

Work Order No.:

C807004

Notes and Definitions

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

Approved By

Argon Laboratories, Inc.

QC Officer

argon laboratories

04 September 2008

Bob Allen
Safety & Environmental Solutions, Inc.
703 E. Clinton Ave.
Hobbs, NM 88240

RE: Paladine Buckeye Leak Project Data

Enclosed are the results for sample(s) received on 08/26/08 15:15 by Argon Laboratories. The sample(s) were analyzed according to instructions in accompanying chain-of-custody. Results are summarized on the following pages.

Please see quality control report for a summary of QC data pertaining to this project.

The sample(s) will be stored for 30 days after completion of analysis; then disposed of in accordance with State and Federal regulations. Sample(s) may be archived by prior arrangement.

Thank you for the opportunity to service the needs of your company.

Sincerely,


Hiram Cueto
Lab Manager

Argon Laboratories Sample Receipt Checklist

Client Name: Safety & Environmental Solution Date & Time Received: 08/26/08 15:15

Project Name: Paladine Buckeye Leak Client Project Number: PAL-08-001

Received By: R.E. Matrix: Water ☒ Soil ☐

Sample Carrier: Client ☐ Laboratory ☒ Fed Ex ☐ UPS ☐ Other ☐

Argon Labs Project Number: C808001

Shipper Container in good condition? N/A ☐ Yes ☒ No ☐ Samples received in proper containers? Yes ☒ No ☐

Samples received intact? Yes ☒ No ☐

Samples received under refrigeration? Yes ☒ No ☐ Sufficient sample volume for requested tests? Yes ☒ No ☐

Chain of custody present? Yes ☒ No ☐ Samples received within holding time? Yes ☒ No ☐

Chain of Custody signed by all parties? Yes ☒ No ☐ Do samples contain proper preservative? N/A ☐ Yes ☒ No ☐

Chain of Custody matches all sample labels? Yes ☒ No ☐ Do VOA vials contain zero headspace? (None submitted ☐) Yes ☒ No ☐

ANY "No" RESPONSE MUST BE DETAILED IN THE COMMENTS SECTION BELOW

Date Client Contacted: _____ Person Contacted: _____

Contacted By: _____ Subject: _____

Comments: _____

Action Taken: _____

ADDITIONAL TEST(S) REQUEST / OTHER

Contacted By: _____ Date: _____ Time: _____

Call Received By: _____

Comments: _____

Safety & Environmental Solutions, Inc.

Project Number: PAL-08-001

703 E. Clinton Ave

Project Name: Paladine Buckeye Leak

Work Order No.:

Hobbs, NM 88240

Project Manager: Bob Allen

C808001

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW # 4	C808001-01	Water	08/26/08 11:00	08/26/08 15:15
MW # 5	C808001-02	Water	08/26/08 12:00	08/26/08 15:15

Approved By

Argon Laboratories, Inc.

QC Officer

Safety & Environmental Solutions, Inc.

Project Number: PAL-08-001

703 E. Clinton Ave

Project Name: Paladine Buckeye Leak

Hobbs, NM 88240

Project Manager: Bob Allen

Work Order No.:

C808001

ANALYSIS REPORT

Analyte	Result	Reporting Limit	Units	Dilution	Analyzed	Method	Notes
MW # 4 (C808001-01) Water Sampled: 08/26/08 11:00 Received: 08/26/08 15:15							
Total Dissolved Solids	3700	10	mg/L	1	09/02/08	EPA 160.1	
Chloride	1700	1.0	"	"	08/28/08	EPA 300.0	
MW # 5 (C808001-02) Water Sampled: 08/26/08 12:00 Received: 08/26/08 15:15							
Total Dissolved Solids	5400	10	mg/L	1	09/02/08	EPA 160.1	
Chloride	2600	1.0	"	"	08/28/08	EPA 300.0	

Approved By

Argon Laboratories, Inc.

QC Officer

Safety & Environmental Solutions, Inc.

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703 E. Clinton Ave

Project Name: Paladine Buckeye Leak

Hobbs, NM 88240

Project Manager: Bob Allen

Work Order No.:

C808001

Volatile Organics by EPA Method 8021B

Analyte	Result	Reporting Limit	Units	Dilution	Analyzed	Method	Notes
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MW # 4 (C808001-01) Water Sampled: 08/26/08 11:00 Received: 08/26/08 15:15

Benzene	1.3	0.5	ug/L	1	08/29/08	8021B	
Toluene	ND	0.5	"	"	"	"	
Ethylbenzene	ND	0.5	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	

Surr. Rec.: 91 %

MW # 5 (C808001-02) Water Sampled: 08/26/08 12:00 Received: 08/26/08 15:15

Benzene	ND	0.5	ug/L	1	08/29/08	8021B	
Toluene	ND	0.5	"	"	"	"	
Ethylbenzene	ND	0.5	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	

Surr. Rec.: 90 %

Approved By

Argon Laboratories, Inc.

QC Officer

Safety & Environmental Solutions, Inc.

Project Number: PAL-08-001

703 E. Clinton Ave

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Hobbs, NM 88240

Project Manager: Bob Allen

Work Order No.:

C808001

ANALYSIS REPORT - Quality Control
Argon Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	RPD	Notes
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Batch CR00125 - General Prep
Blank (CR00125-BLK1)

Prepared & Analyzed: 08/28/08

Chloride ND 1.0 mg/L

LCS (CR00125-BS1)

Prepared & Analyzed: 08/28/08

Chloride 4.10 mg/L 5.00 82

LCS Dup (CR00125-BSD1)

Prepared & Analyzed: 08/28/08

Chloride 4.50 mg/L 5.00 90 9

Matrix Spike (CR00125-MS1)

Prepared & Analyzed: 08/28/08

Chloride 4.15 mg/L 5.00 83

Matrix Spike Dup (CR00125-MSD1)

Prepared & Analyzed: 08/28/08

Chloride 4.95 mg/L 5.00 99 18

Batch CR00126 - General Prep
Blank (CR00126-BLK1)

Prepared & Analyzed: 09/02/08

Total Dissolved Solids ND 10 mg/L

LCS (CR00126-BS1)

Prepared & Analyzed: 09/02/08

Total Dissolved Solids 950 mg/L 1000 95

LCS Dup (CR00126-BSD1)

Prepared & Analyzed: 09/02/08

Total Dissolved Solids 970 mg/L 1000 97 2

Matrix Spike (CR00126-MS1)

Prepared & Analyzed: 09/02/08

Total Dissolved Solids 1030 mg/L 1000 103

Matrix Spike Dup (CR00126-MSD1)

Prepared & Analyzed: 09/02/08

Total Dissolved Solids 1020 mg/L 1000 102 1

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Project Manager: Bob Allen

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C808001

Volatile Organics by EPA Method 8021B - Quality Control
Argon Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	RPD	Notes
Batch CR00128 - EPA 5030B								
Blank (CR00128-BLK1)				Prepared & Analyzed: 08/29/08				
Surrogate: <i>a,a,a</i> -Trifluorotoluene	50.0		ug/L	50.0		100		
Benzene	ND	0.5	"					
Toluene	ND	0.5	"					
Ethylbenzene	ND	0.5	"					
Xylenes (total)	ND	1.0	"					
LCS (CR00128-BS1)				Prepared & Analyzed: 08/29/08				
Benzene	48.8		ug/L	50.0		98		
LCS Dup (CR00128-BSD1)				Prepared & Analyzed: 08/29/08				
Benzene	48.8		ug/L	50.0		98	0	
Matrix Spike (CR00128-MS1)				Prepared & Analyzed: 08/29/08				
Toluene	52.4		ug/L	50.0		105		
Matrix Spike Dup (CR00128-MSD1)				Prepared & Analyzed: 08/29/08				
Toluene	52.6		ug/L	50.0		105	0.4	

Approved By

Argon Laboratories, Inc.

QC Officer



2126 W. Marland Ave., Hobbs, NM 88240 (505)397-0295 Fax (505)397-0296

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Notes and Definitions

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ND Analyte NOT DETECTED at or above the reporting limit
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dry Sample results reported on a dry weight basis
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