Submit 1 Copy To Appropriate District Office
District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Ave., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

HOBBS OCD
DEC 05 2014
RECEIVED

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-103
October 13, 2009

WELL API NO. 30-009-20022	
5. Indicate Type of Lease STATE ☐ FEE ☒	
6. State Oil & Gas Lease No.	
SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)	7. Lease Name or Unit Agreement Name Terry and Pamela Stovall Partnership 13
1. Type of Well: Oil Well ☐ Gas Well ☒ Other ☐	8. Well Number ~~Stovall 13~~-1
2. Name of Operator SWEPI LP	9. OGRID Number 250036
3. Address of Operator P.O. Box 576, Houston, TX 77001: (Local Contact SEPCo 4582 S. Ulster Pkwy., Suite 1400, Denver, CO 80237)	10. Pool name or Wildcat Wildcat
4. Well Location Unit Letter B : 800 feet from the North line and 1835 feet from the East line Section 13 Township 8N Range 35E NMPM Curry County	
	11. Elevation *(Show whether DR, RKB, RT, GR, etc.)* 4561 feet - GR

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☐	COMMENCE DRILLING OPNS. ☐	P AND A ☒
PULL OR ALTER CASING ☐	MULTIPLE COMPL ☐	CASING/CEMENT JOB ☐	
DOWNHOLE COMMINGLE ☐			
OTHER: ☐		OTHER: Pit ☐	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Please see attached ~~P&A~~ Pit summary ~~and wellbore diagram~~.

Spud Date: 5/19/2011 Rig Release Date: 6/17/2011

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE _____ TITLE Regulatory Advisor DATE _____

Type or print name Michael L. Bergstrom E-mail address: Michael.Bergstrom@shell.com PHONE: 303.222.6347

For State Use Only

APPROVED BY: _____ TITLE _____ DATE 12-15-14

Conditions of Approval (if any):

Mr. Michael L. Bergstrom
Regulatory Advisor
Shell Exploration & Production Co.
4582 S. Ulster Pkwy., Suite 1400
Denver, CO 80237

July 25, 2012

Subject: Stovall 13-1 Gas Well Completion Pit Closure Report
Terry and Pamela Stovall Partnership Lease
Curry County, New Mexico

Dear Mr. Bergstrom:

AMEC Environment and Infrastructure, Inc. (AMEC) is submitting this closure report for the completion pit at the Stovall 13-1 natural gas well (API # 3000920022) located in Section 13; Township 8 North; Range 35 East of Curry County, New Mexico. This wildcat gas well was not completed and was plugged and abandoned on June 14, 2011. The well was drilled using closed-loop methods and the completion pit was never used for completion or flow back fluids. The pit was used only for a small volume of water pumped from the adjacent fresh water well during well development. The fresh water well development water was removed by bailing and pumping and it contained both drilling mud and formation material. This report was prepared in accordance with guidelines published in New Mexico Administrative Code (NMAC) 19.15.17.13 and includes a brief description of the pit closure process, analytical results for the soil samples collected beneath the liner, backfilling, and revegetation procedures.

SCOPE OF WORK

The scope of work described below was conducted in accordance with the NMAC 19.15.17.13 and the New Mexico Oil Conservation Division (OCD) guidance document *New Mexico Pit Closure Plan*. The scope of work for the pit closure included:

- Cutting five holes through the 30-mil high density polyethylene (HDPE) pit liner;
- The collection of five soil samples immediately below the liner through the holes cut in the liner;
- The creation and laboratory analysis of a five-point composite soil sample;
- Removal, transport, and disposal of the 30-mil HDPE pit liner;
- Backfill to grade, contouring with the surrounding topography, and seeding; and
- Reporting the results of the closure activities in this report.

FIELD ACTIVITIES

On August 26, 2011, AMEC arrived at the location and observed that there was no evidence of a breach in the liner. In order to expedite the pit closure process, AMEC cut holes through the 30-mil HDPE liner in five locations and collected a soil sample from each location as depicted on Figure 1 (Appendix A, Photos 1-6; 13-17; 20-24). There were no visible indications of a breech in the liner or wet areas in the exposed soil in the five sample locations. These samples were used to create a five-point composite that was submitted for laboratory analysis. Soil samples were collected in properly labeled 4-ounce glass sample jars, placed in a cooler with ice, and transported under chain-of custody to Hall Environmental Analysis Laboratory in Albuquerque, New Mexico. The samples were analyzed for motor oil range organics, diesel range organics, gasoline range organics, total petroleum hydrocarbons (TPH), benzene, toluene, ethyl benzene, xylenes (collectively BTEX), and chloride on a 24 hour turn-around-time or rush basis.

Following sample collection, Robinson Construction (Robinson) began to remove the liner. As the liner was removed, no visible indications of a breech were observed in the liner. Once the liner had been removed, wet areas were not observed in the soil. Inspection of the pit bottom indicated that caliche was exposed over the majority of the pit bottom.

The chloride laboratory analytical result for the five-point composite sample was 25 parts per million (ppm) or milligrams per kilogram. The chloride laboratory analytical result for the spoils stockpile was 83 ppm. TPH was detected in the pit bottom sample at a concentration of 34 ppm, below the OCD regulatory limit of 2,500 ppm. None of the other organic constituents were detected in the samples. The laboratory analytical results are summarized in Table 1 and the laboratory analytical sheets are included in Appendix B.

Mr. Leking, with OCD's Hobbs district office, was contacted via telephone after receiving the analytical results via email and he indicated that the pit could be backfilled and compacted with the clean spoils stockpile removed to create the pit. Robinson began backfill and compaction activities on 28 August and completed them on September 9, 2011 (Appendix A, Photos 7-13). In March of 2012, the location was seeded with the prescribed seed mix applied with a mechanical seed drill at a rate of 8-12 pounds pure live seed per acre. Seeding was supplemented as necessary by hand broadcast in areas with restricted machinery access. The OCD Form C-144 is presented in Appendix C.

DISCUSSION

Soil or bedrock examined and sampled in the bottom of the pit after liner removal did not contain chloride or hydrocarbon concentrations above any of the regulatory limits. Bedrock in the bottom of the excavation was ripped as much as practicable, and mixed with clean soil from the stockpile. The remainder of the clay-rich, low permeability, clean soil stockpile was placed and compacted in the excavation. The pit closure described above was done in accordance with NMAC 19.15.17.13.

LIMITATIONS

The scope of work for this report is intended to provide documentation of the Stovall 13-1 completion pit closure process in relation to the removal and disposal of the pit liner and soil sampling beneath the liner. This work was performed in a manner consistent with that level of care and skill ordinarily exercised by other members of AMEC's profession practicing in the same locality, under similar conditions and at the date the services are provided. Any conclusions, opinions and recommendations are based on a limited number of observations and data. It is possible that conditions could vary between or beyond the data evaluated. AMEC makes no other representation, guarantee or warranty, express or implied, regarding the services, communication (oral or written), report, opinion, or instrument of service provided.

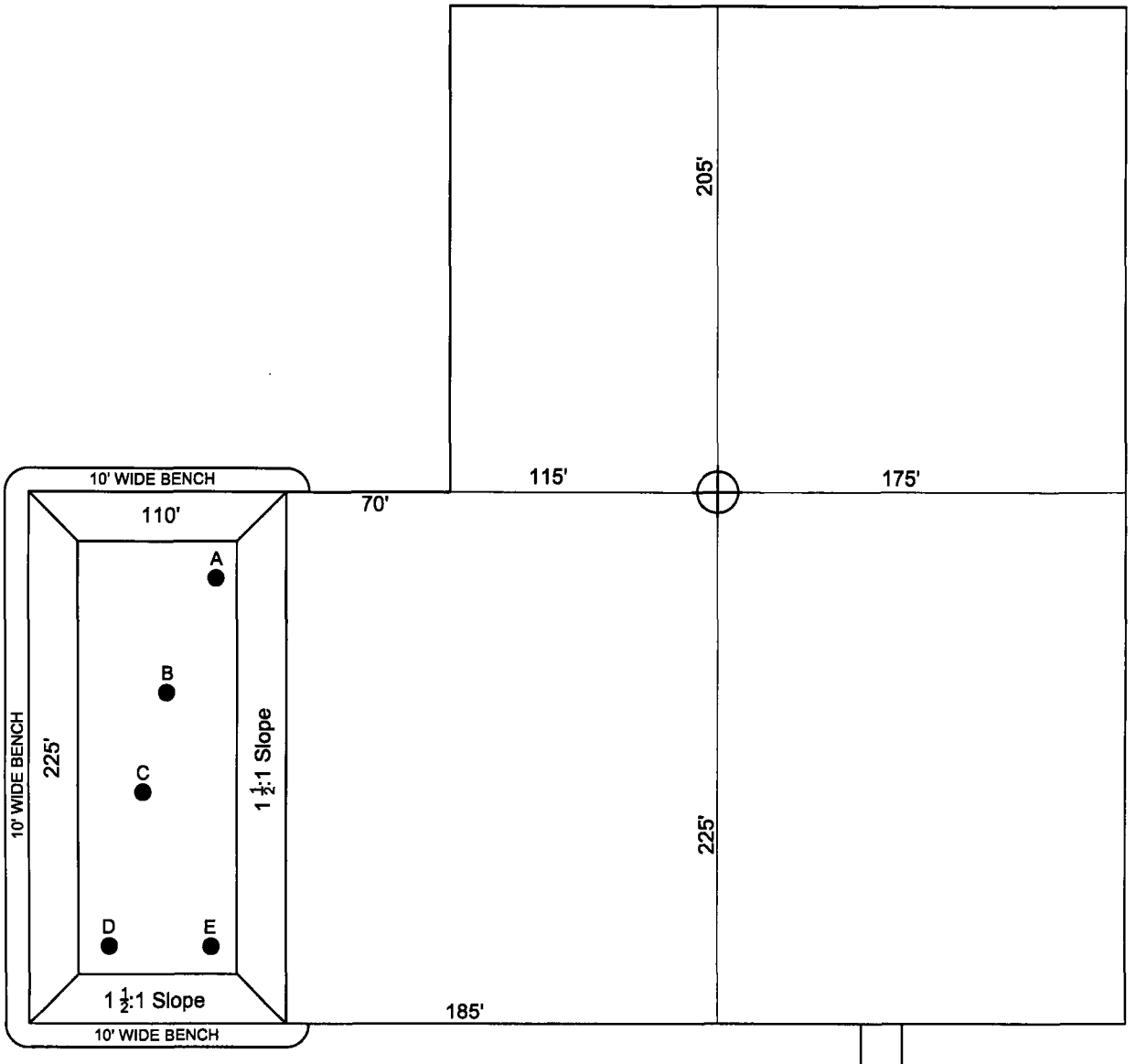
Respectfully submitted,
AMEC Environment & Infrastructure, Inc.

David Janney, PG
Project Manager

Reviewed by:

Dan Kwiecinski, PE
Branch Manager

FIGURES



EXPLANATION:

- ●A COMPOSITE SAMPLE POINTS
- ⊕ GAS WELL

N
W E
S

0 80
Approximate Scale in Feet

SAMPLE LOCATION MAP

Stovall #13-1
Shell Exploration & Production
Section 13, Township 8N, Range 35E
Curry County, NM

By: KWJ	Date: 7/24/12	Project No. HO10160270
amec		Figure 1

TABLES

Table 1
Stovall 13-1 Completion Pit Analytical Summary
Curry County, New Mexico

Sample Number	Date Collected	Matrix	Gasoline Range Organics EPA Method 8015B	Diesel Range Organics EPA Method 8015B	Motor Oil Range Organics EPA Method 8015B	Volatiles B, T, E, X EPA Method 8021B				Total Petroleum Hydrocarbons EPA Method 418.1	Chloride	Comments
Stovall-82611-1	8/26/11	soil	< 5	<10	< 51	< 0.05	< 0.05	< 0.05	< 0.099	20	25	5 point composite
Stovall-82611-2	8/26/11	soil	NA	NA	NA	NA	NA	NA	NA	NA	83	spoils pile

NOTES:
All concentrations are in milligrams per kilogram (mg/Kg) for soil and μg/L for water
B = Benzene
CY = Cubic yards
E = Ethyl benzene
NA = Not analyzed
T = Toluene
X = Xylenes

API No. 30-009-20022

APPENDIX A

Photographic Log

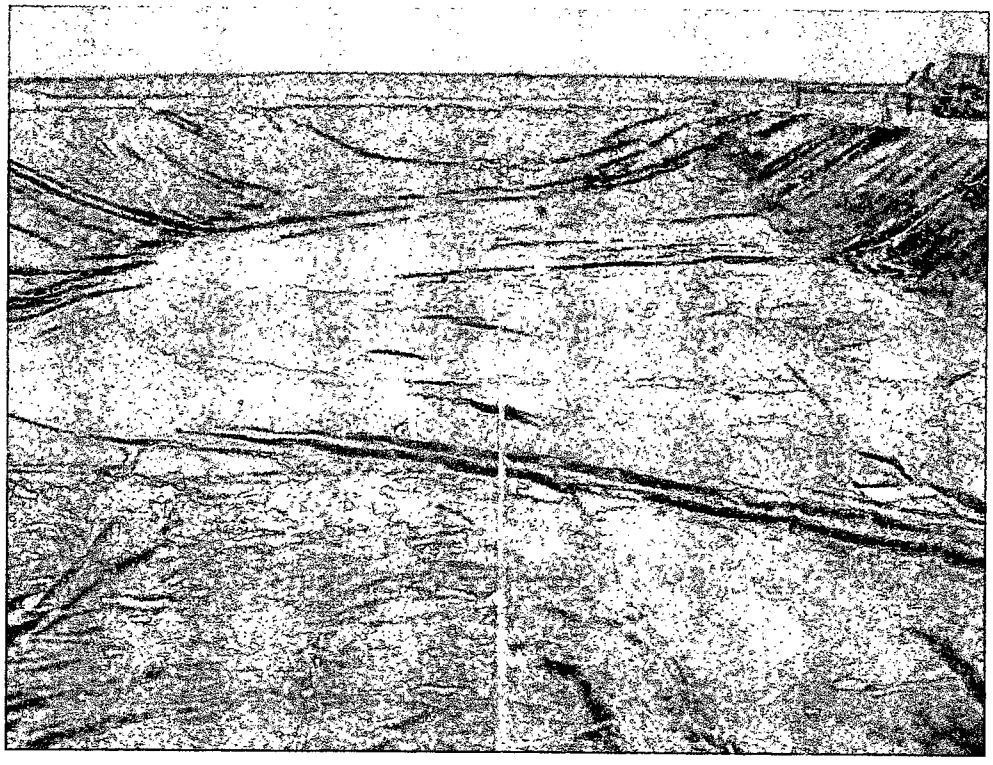


Photo 1. Completion pit during sampling with minor mud and rainwater, note holes cut through liner for soil sampling (looking north).

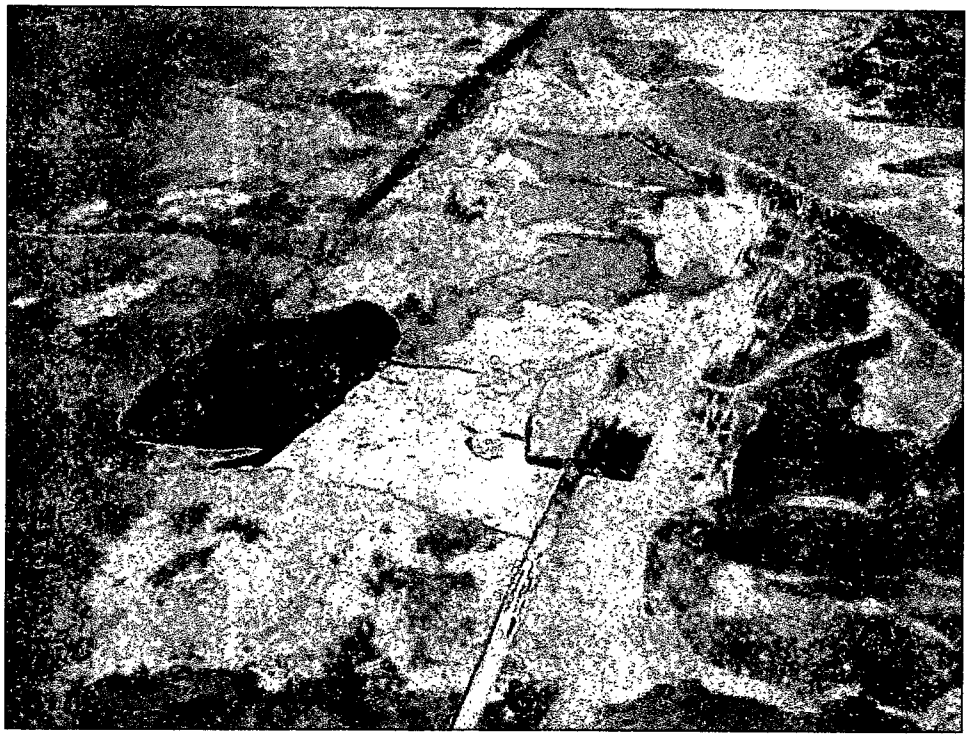


Photo 2. Sample location Stovall-82611-A (looking northwest).

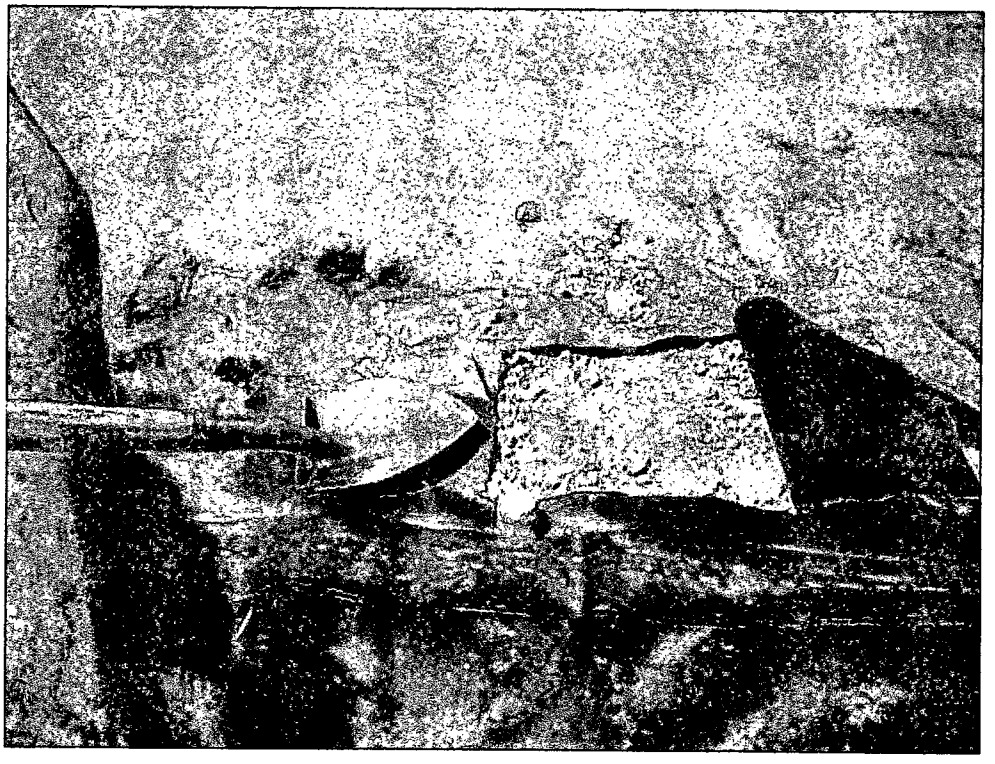


Photo 3. Sample location Stovall-82611-B (looking west).

Photo 4. Sample location Stovall-82611-C (looking northeast).

Photo 5. Sample location Stovall-82611-D (looking northeast).

Photo 6. Sample location Stovall-82611-E (looking northwest).

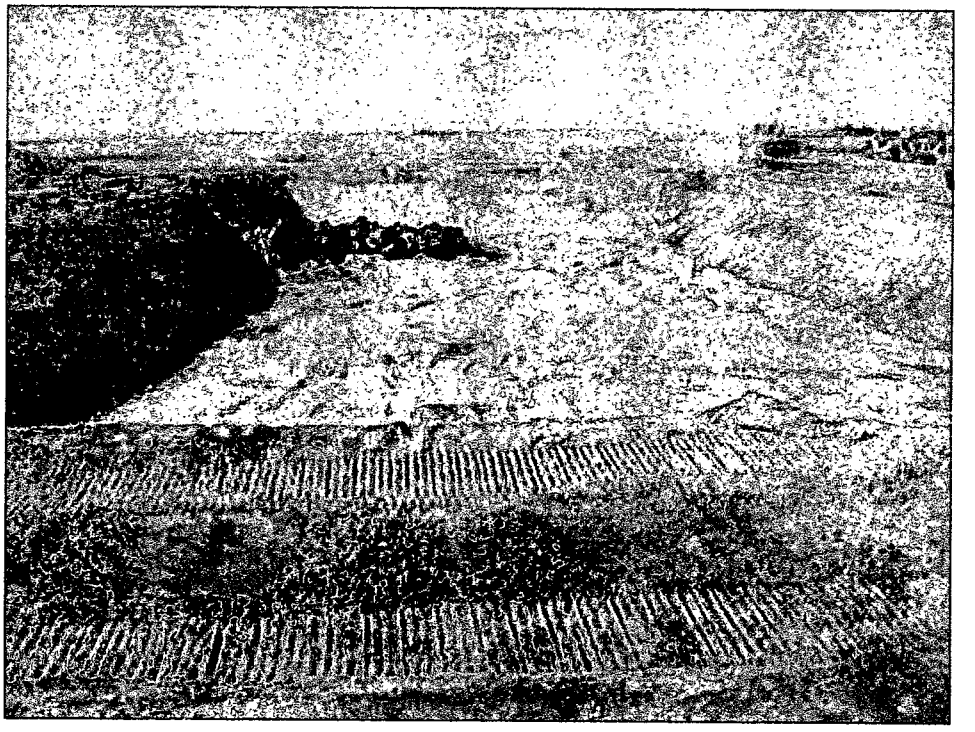


Photo 7. Liner nearly removed (looking north).

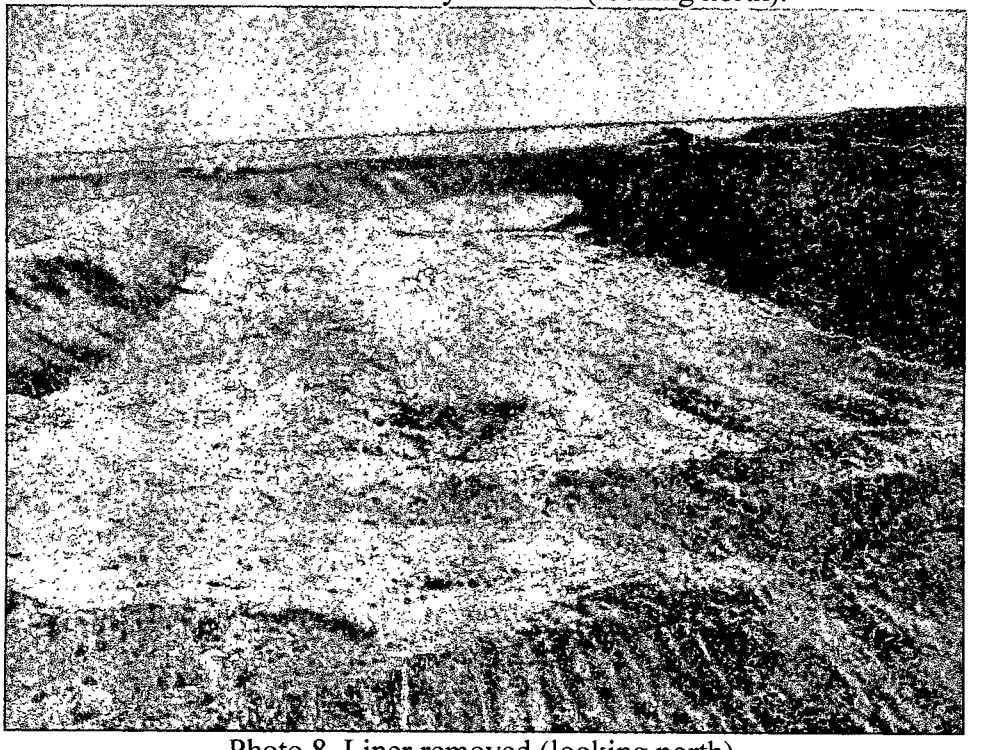


Photo 8. Liner removed (looking north).

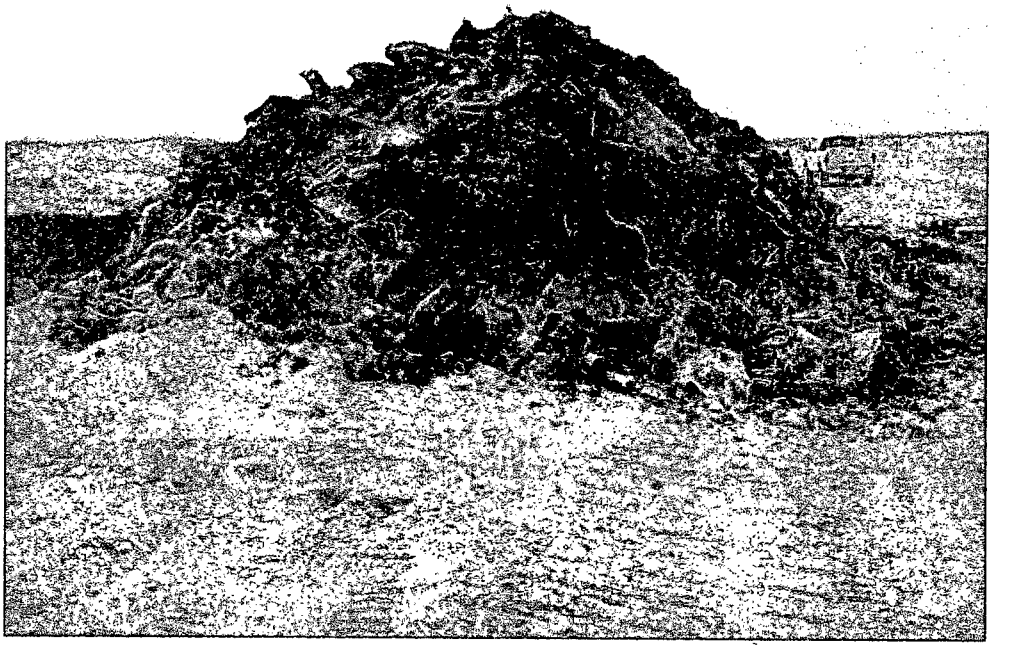


Photo 9. Liner removed and staged for transport and disposal (looking north).

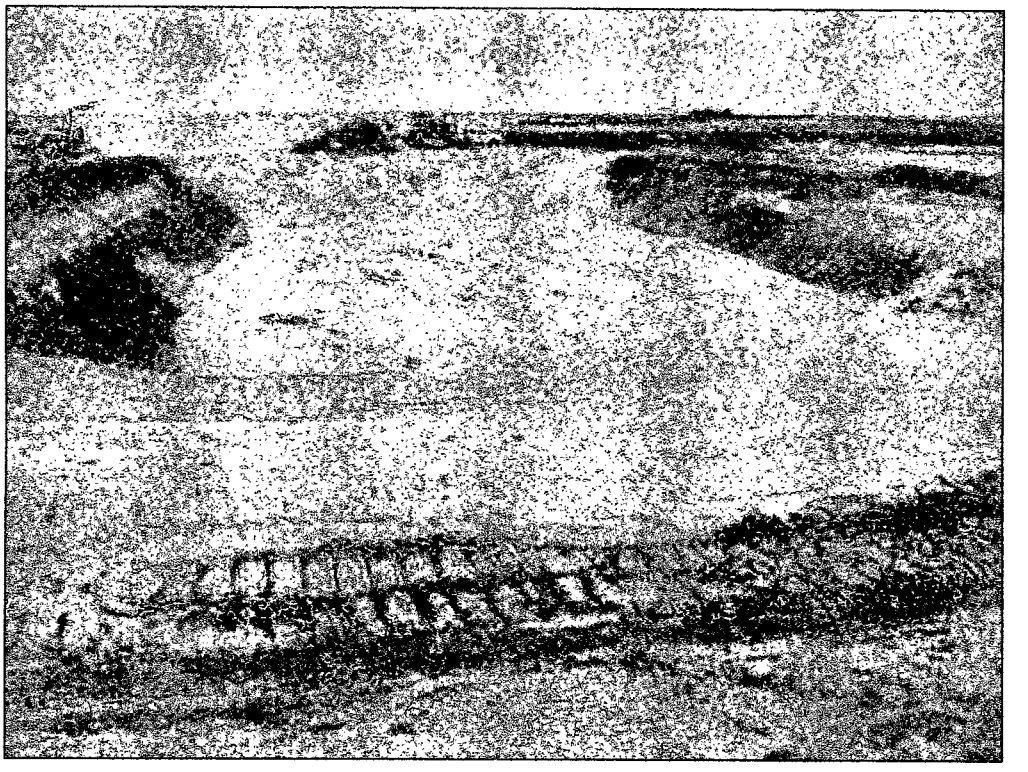


Photo 10. Backfill and compaction partially completed (looking northeast).

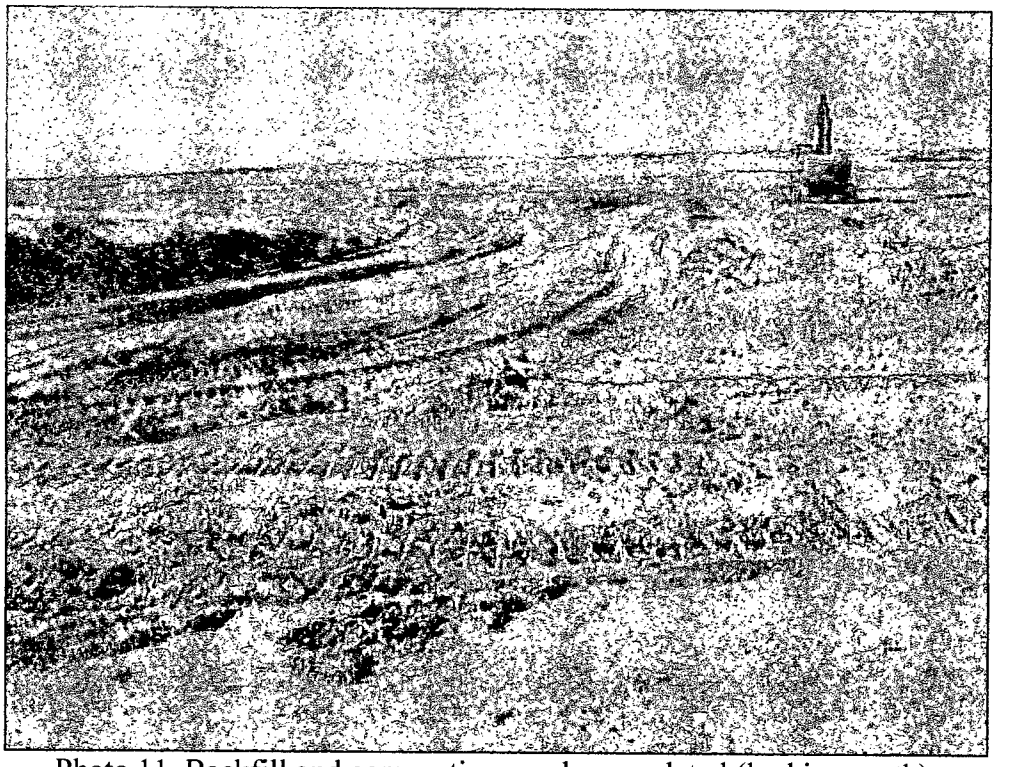


Photo 11. Backfill and compaction nearly completed (looking north).

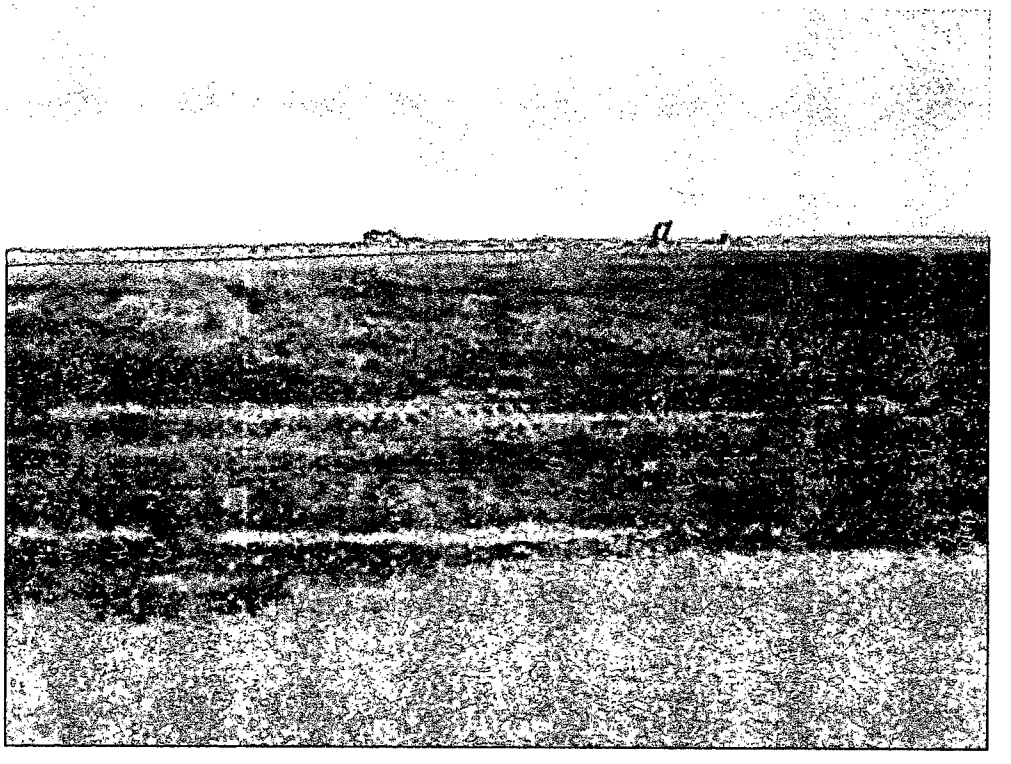


Photo 12. Backfill and compaction completed (looking east-southeast).

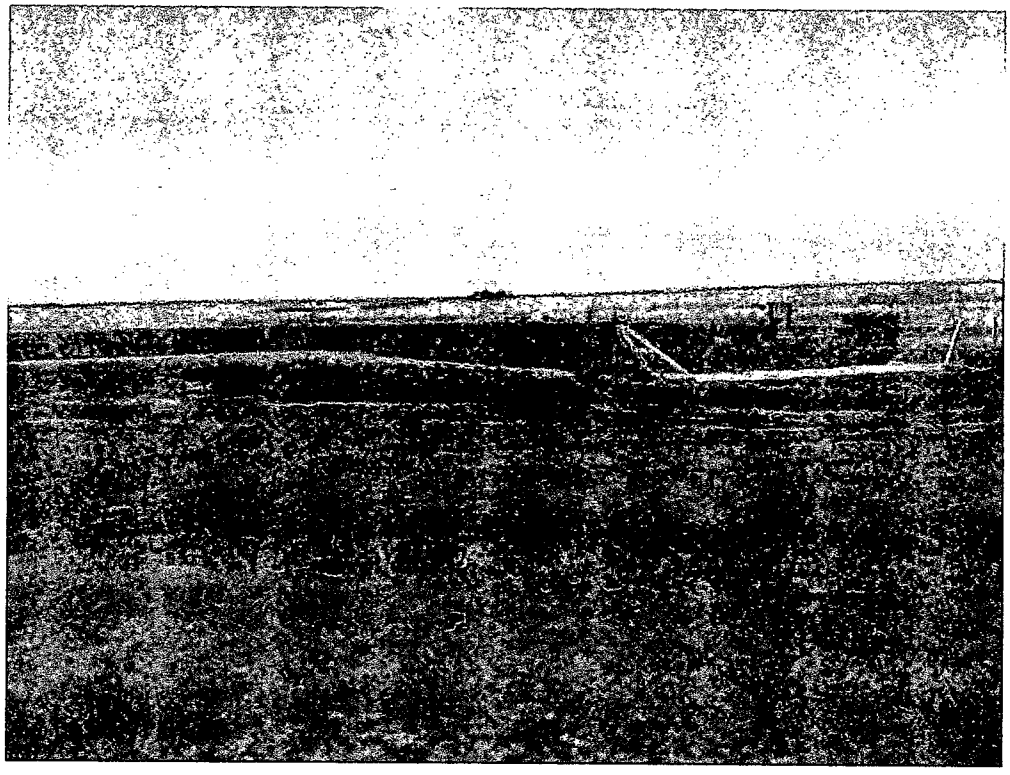


Photo 13. Backfill and compaction completed (looking northeast).

APPENDIX B

Laboratory Analytical Results, QA/QC, and Chains-of-Custody

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

COVER LETTER

Tuesday, August 30, 2011

David Janney
AMEC
8519 Jefferson Street, NE
Albuquerque, NM 87113
TEL: ( ) 449-8487
FAX (505) 821-7371

RE: Shell-Lobo

Order No.: 1108A94

Dear David Janney:

Hall Environmental Analysis Laboratory, Inc. received 2 sample(s) on 8/26/2011 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

Please do not hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Laboratory Manager

NM Lab # NM9425 NM0901
AZ license # AZ0682

Hall Environmental Analysis Laboratory, Inc.

Date: *30-Aug-11*
Analytical Report

CLIENT:	AMEC	**Client Sample ID:**	Strovall-82611-1
Lab Order:	1108A94	**Collection Date:**	8/26/2011 11:30:00 AM
Project:	Shell-Lobo	**Date Received:**	8/26/2011
Lab ID:	1108A94-01	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JB**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	8/30/2011 9:09:09 AM
Motor Oil Range Organics (MRO)	ND	51		mg/Kg	1	8/30/2011 9:09:09 AM
Surr: DNOP	104	73.4-123		%REC	1	8/30/2011 9:09:09 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/29/2011 4:05:21 PM
Surr: BFB	92.2	75.2-136		%REC	1	8/29/2011 4:05:21 PM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.050		mg/Kg	1	8/29/2011 4:05:21 PM
Toluene	ND	0.050		mg/Kg	1	8/29/2011 4:05:21 PM
Ethylbenzene	ND	0.050		mg/Kg	1	8/29/2011 4:05:21 PM
Xylenes, Total	ND	0.099		mg/Kg	1	8/29/2011 4:05:21 PM
Surr: 4-Bromofluorobenzene	93.1	80-120		%REC	1	8/29/2011 4:05:21 PM
EPA METHOD 300.0: ANIONS						Analyst: **SRM**
Chloride	25	1.5		mg/Kg	1	8/29/2011 3:48:26 PM
EPA METHOD 418.1: TPH						Analyst: **JB**
Petroleum Hydrocarbons, TR	34	20		mg/Kg	1	8/30/2011

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *30-Aug-11*
Analytical Report

CLIENT:	AMEC	**Client Sample ID:**	Strovall-82611-2
Lab Order:	1108A94	**Collection Date:**	8/26/2011 12:00:00 PM
Project:	Shell-Lobo	**Date Received:**	8/26/2011
Lab ID:	1108A94-02	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **SRM**
Chloride	83	30		mg/Kg	20	8/29/2011 4:40:41 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: AMEC
Project: Shell-Lobo **Work Order:** 1108A94

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 300.0: Anions											
Sample ID: MB-28233		*MBLK*				Batch ID:	**28233**	Analysis Date:		8/29/2011 3:13:36 PM	
Chloride	ND	mg/Kg	1.5								
Sample ID: LCS-28233		*LCS*				Batch ID:	**28233**	Analysis Date:		8/29/2011 3:31:01 PM	
Chloride	13.98	mg/Kg	1.5	15	0	93.2	90	110			
Method: EPA Method 418.1: TPH											
Sample ID: MB-28237		*MBLK*				Batch ID:	**28237**	Analysis Date:		8/30/2011	
Petroleum Hydrocarbons, TR	ND	mg/Kg	20								
Sample ID: LCS-28237		*LCS*				Batch ID:	**28237**	Analysis Date:		8/30/2011	
Petroleum Hydrocarbons, TR	98.38	mg/Kg	20	100	0	98.4	87.8	115			
Sample ID: LCSD-28237		*LCSD*				Batch ID:	**28237**	Analysis Date:		8/30/2011	
Petroleum Hydrocarbons, TR	103.5	mg/Kg	20	100	0	104	87.8	115	5.07	8.04	
Method: EPA Method 8015B: Diesel Range Organics											
Sample ID: MB-28229		*MBLK*				Batch ID:	**28229**	Analysis Date:		8/30/2011 7:26:35 AM	
Diesel Range Organics (DRO)	ND	mg/Kg	10								
Motor Oil Range Organics (MRO)	ND	mg/Kg	50								
Sample ID: LCS-28229		*LCS*				Batch ID:	**28229**	Analysis Date:		8/30/2011 8:00:43 AM	
Diesel Range Organics (DRO)	49.91	mg/Kg	10	50	0	99.8	66.7	119			
Sample ID: LCSD-28229		*LCSD*				Batch ID:	**28229**	Analysis Date:		8/30/2011 8:35:04 AM	
Diesel Range Organics (DRO)	45.86	mg/Kg	10	50	0	91.7	66.7	119	8.48	18.9	
Method: EPA Method 8015B: Gasoline Range											
Sample ID: 1108A94-01AMSD		*MSD*				Batch ID:	**28220**	Analysis Date:		8/29/2011 7:27:32 PM	
Gasoline Range Organics (GRO)	27.59	mg/Kg	5.0	24.85	0	111	72.4	149	3.48	19.2	
Sample ID: MB-28220		*MBLK*				Batch ID:	**28220**	Analysis Date:		8/29/2011 10:18:36 AM	
Gasoline Range Organics (GRO)	ND	mg/Kg	5.0								
Sample ID: LCS-28220		*LCS*				Batch ID:	**28220**	Analysis Date:		8/29/2011 12:14:15 PM	
Gasoline Range Organics (GRO)	26.75	mg/Kg	5.0	25	0	107	86.4	132			
Sample ID: 1108A94-01AMS		*MS*				Batch ID:	**28220**	Analysis Date:		8/29/2011 6:58:38 PM	
Gasoline Range Organics (GRO)	26.65	mg/Kg	5.0	25	0	107	72.4	149			
Method: EPA Method 8021B: Volatiles											
Sample ID: MB-28220		*MBLK*				Batch ID:	**28220**	Analysis Date:		8/29/2011 10:18:36 AM	
Benzene	ND	mg/Kg	0.050								
Toluene	ND	mg/Kg	0.050								
Ethylbenzene	ND	mg/Kg	0.050								
Xylenes, Total	ND	mg/Kg	0.10								
Sample ID: LCS-28220		*LCS*				Batch ID:	**28220**	Analysis Date:		8/29/2011 12:43:07 PM	
Benzene	0.9426	mg/Kg	0.050	1	0	94.3	83.3	107			
Toluene	0.9762	mg/Kg	0.050	1	0	97.6	74.3	115			
Ethylbenzene	0.9795	mg/Kg	0.050	1	0	97.9	80.9	122			
Xylenes, Total	2.987	mg/Kg	0.10	3	0	99.6	85.2	123			

Qualifiers:

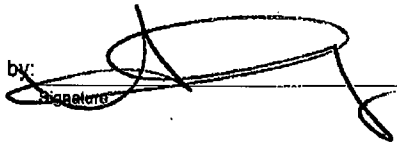
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name AMEC | Date Received: 8/26/2011

Work Order Number 1108A94 | Received by: AMF

Checklist completed by:  Signature 8/26/11 Date | Sample ID labels checked by: MF Initials

Matrix: | Carrier name: Client drop-off

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐		
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☐	Not Shipped ☑	
Custody seals intact on sample bottles?	Yes ☐	No ☐	N/A ☑		
Chain of custody present?	Yes ☑	No ☐			
Chain of custody signed when relinquished and received?	Yes ☑	No ☐			
Chain of custody agrees with sample labels?	Yes ☑	No ☐			
Samples in proper container/bottle?	Yes ☑	No ☐			
Sample containers intact?	Yes ☑	No ☐			
Sufficient sample volume for indicated test?	Yes ☑	No ☐			
All samples received within holding time?	Yes ☑	No ☐			
Water - VOA vials have zero headspace? No VOA vials submitted ☑		Yes ☐	No ☐		
Water - Preservation labels on bottle and cap match?	Yes ☐	No ☐	N/A ☑		
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑		
Container/Temp Blank temperature?	6.4°	<6° C Acceptable If given sufficient time to cool.			

Number of preserved bottles checked for pH: _____

<2 >12 unless noted below.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

_____

_____

_____

_____

Corrective Action _____

_____

_____

Chain-of-Custody Record

Client: AMEC

Mailing Address: 8519 Jefferson NE
Albuquerque, NM 87113

Phone #: 505.821.1801

email or Fax#: david.janney@amec.com

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____

☒ EDD (Type) Excel

Turn-Around Time:
☐ Standard ☒ Rush 24hr TAT

Project Name: Shell-Lobo

Project #: HO10160270

Project Manager: David Janney

Sampler: David Janney

On Ice: ☒ Yes ☐ No

Sample Temperature: 6.4

HEAL No. 1108491

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.
8-26-11	1130	Soil	Shell-82611-1	2-4oz gloss	None	1
"	1200	"	Shell-82611-2	1-4oz gloss	"	2

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Chloride (300.1)	TPH MRO			Air Bubbles (Y or N)
	X	X	X								X	X			
											X				

Date	Time	Relinquished by:	Received by:	Date	Time
8/26/11	1620	David Janney		8/26/11	1620
Date:	Time:	Relinquished by:	Received by:	Date	Time

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

APPENDIX C

OCD Form C-144