



Shell Exploration & Production

State of New Mexico
Energy, Minerals and Natural Resources Dept.
Oil Conservation Division-District 4
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
Attn.: Ed Martin, District Supervisor

Shell Exploration & Production Co.

Regulatory Affairs-EP Americas
4582 S. Ulster Street Parkway
Suite 1400
Denver, Colorado 80237

March 13, 2012

Subject: Notice of Completion Pit Closure and Interim Reclamation
Shell Exploration & Production Co., Latigo Ranch 3-5 (API No. 30-019-20137)
Guadalupe County, New Mexico

Dear Mr. Martin:

Shell Exploration & Production Company (Shell), as service provider to SWEPI LP in New Mexico, is submitting a Pit Closure Report (including Form C-144) to detail completion pit closure activities and interim reclamation conducted for the subject well, to New Mexico Oil Conservation Division-District 4 (OCD) for your review and approval.

If you have any questions or require any additional information regarding these reports, please contact me at (303) 222-6347, or David Janney at AMEC in Albuquerque at (505) 821-1801.

Regards,

Michael L. Bergstrom
Senior Regulatory Advisor
Shell Exploration & Production Company

Attachments: Completion Pit Closure Report
Form C-144

RECEIVED
2012 MAR 15 A 10 21



November 3, 2011

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

**Subject: Latigo Ranch 3-5 Gas Well Completion Pit Closure Report
Singleton Properties, LLC Lease
Cuervo, Guadalupe County, New Mexico**

RECEIVED OCD
2012 MAR 15 A 10:28

Dear Mr. Bergstrom:

AMEC Environment and Infrastructure (AMEC) is submitting this closure report for the completion pit at the Latigo Ranch 3-5 natural gas well (API # 3001920137) located in Section 5; Township 10 N; Range 23 East of Guadalupe County, New Mexico (Figure 1). This wildcat gas well was completed and ready for flow testing on September 22, 2009. This well was drilled using closed-loop methods and the pit was used solely for the containment of completions materials. This report was prepared in accordance with guidelines published in New Mexico Administrative Code 19.15.17.13 and includes a brief description of the pit closure process, pit contents and pit liner removal procedures, soil sampling procedures conducted by AMEC following removal of the liner, and backfilling procedures.

SCOPE OF WORK

The scope of work described below was conducted in accordance with the New Mexico Administrative Code 19.15.17.13 and the OCD guidance document *New Mexico Pit Closure Plan*. The scope of work for the pit closure included:

- Removal of fluid and drilling mud in the lined pit;
- Removal of the 30 mil HPDPE pit liner;
- Transport and disposal of drilling completions and flow-back fluids, drilling mud, and pit liner;
- Removal, transport, and disposal of approximately five cubic yards of soil from selected locations in the bottom of the excavation;
- Collection, chloride field test kit, and laboratory analysis of samples from the excavation bottom;
- Backfilling to grade and contouring with the surrounding topography; and

- Reporting the results of the closure in this report.

FIELD ACTIVITIES

Robinson Construction Group (Robinson) began removing the fluid from the pit on December 11, 2010 (Appendix A, Photos 1-3). Robinson removed approximately 21,200 barrels of fluid (890,400 gallons), 560 cubic yards of mud contained in the liner, and 220 cubic yards of soil beneath the liner. Robinson completed the removals on January 14, 2011 (Appendix A, Photos 4-5). Fluid was removed and transported in vacuum trucks and the mud, liner and soil were transported in end dump trucks to the Gandy-Marley Inc. (GMI) oil-field waste disposal facility located in Tatum, New Mexico (facility ID # NM 711-1-0020) for proper disposal.

During liner removal, there were no visible indications of a breach in the liner material. There was, however, wet and stained soil beneath the liner in the north east corner of the excavation (Appendix A, Photo 6). Robinson removed all of the stained soil, approximately 220 cubic yards, in the northeast corner of the excavation and prepared the excavation bottom for sampling (Appendix A, Photos 7-8). On January 10, 2011, AMEC collected a five-point composite soil sample from the bottom of the pit (Appendix A, Photos -9-13). The five-point composite sample was collected from each corner and the center of the excavation and is depicted on Figure 2. Sample point LR35-110111-3 was in the northeast corner of the excavation. Approximately four ounces of soil from each of the five points was placed into a one-gallon zip-lock bag and the contents were thoroughly mixed. The samples for laboratory analysis were removed from the zip-lock bag and placed into two properly labeled 4-ounce glass sample jars. The sample jars were placed in a cooler with ice and transported under chain-of custody to Hall Analytical Laboratory (Hall) in Albuquerque, New Mexico. The samples were analyzed for diesel (DRO), gasoline (GRO) and motor oil range organics (MRO), benzene, toluene, ethyl benzene, xylenes, and chloride. In addition to submitting the samples for laboratory analysis, AMEC also removed 20 grams of soil from the five-point composite sample and analyzed 10 grams using the Hach "Quantab" Chloride Field Test Kit # 2744940 (Low Range 30-600 parts per million (ppm) Cl) and 10 grams using the test kit # 2751340 (High Range 300-6000 ppm Cl).

According to the Hach guidelines, the soil for field test kit analysis was placed into 100 milliliters of hot water for 90 minutes before reading the colorimetric strips. The Low-Range Quantab indicated the chloride concentration in the sample was less than 20 ppm and the Hi-Range Quantab indicated the chloride concentration was less than 287 ppm.

The chloride laboratory analytical result for the five-point composite sample was 1,400 ppm. No organic compounds were detected in the sample. The laboratory analytical results are summarized in Table 1 and the laboratory analytical sheets are included in Appendix B.

Mr. Ed Martin, with the New Mexico Oil Conservation Division (OCD) was contacted via telephone and informed of the analytical results. Mr. Martin indicated that the excavation bottom could be ripped as much as practicable and clean backfill material

mixed 3:1 with soil in the bottom of the excavation. This could be followed by backfilling and compaction. Robinson completed the backfill, compaction, and contouring on January 17, 2011 (Appendix A, Photos 14-16) and the contoured pit will be reseeded in early 2012. The expected application of the prescribed seed mix will be 8-12 pounds pure live seed per acre and it will be applied with a mechanical seed drill and as necessary hand broadcast in areas with restricted machinery access. The OCD Form C-144 is included in Appendix C. Robinson returned the GMI disposal load tickets directly to Shell Exploration & Production Company.

DISCUSSION

Soil with chloride concentrations above the regulatory limit of 1,000 ppm remained in place. All of the other analyte concentrations in these samples were below the regulatory limits. Soil in the bottom of the excavation was ripped as much as practicable, and mixed with clean soil from the stockpile at a ratio of 3:1 clean soil and excavation bottom soil. The remainder of the clay-rich, low permeability, clean soil stockpile was placed and compacted in the excavation. Based on drilling of five nearby water wells, depth to groundwater at the location is greater than 300 feet; therefore, the pit closure described above is protective of human health and the environment.


The initial Hach chloride field test kit results were not consistent with the chloride concentrations in the laboratory samples and the difference between the field test kit results and the laboratory results were greater than one order of magnitude. Chloride field test kits for this location are suspect; possible due to the fine-grained materials (clay of mudstone) being analyzed.

LIMITATIONS


The scope of work for this report is intended to provide documentation of the Latigo Ranch 3-5 completion pit closure process in relation to the removal of fluids, mud, and soil and is not intended to provide and assessment of the Hach chloride field test kits.

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.

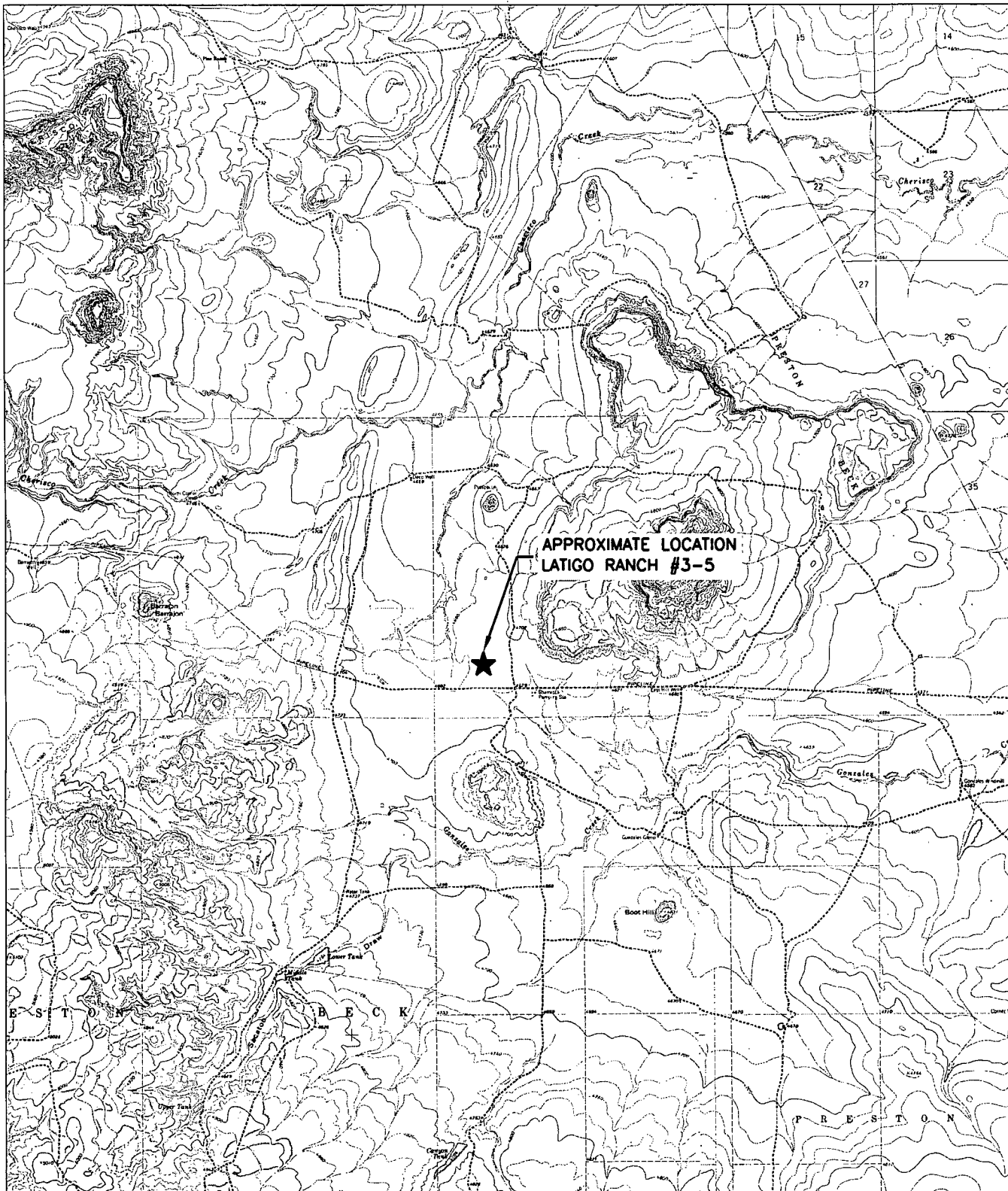
Respectfully submitted,
AMEC Environment and Infrastructure


David Janney, PG
Project Manager

Reviewed by:


Dan Kwiecinski, PE
Unit Manager

FIGURES

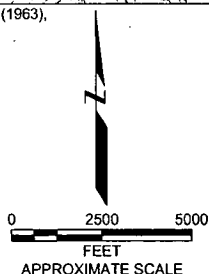


SOURCE: USGS 7.5 MINUTE MESITA DEL GATO, NM QUADRANGLE (1963),
 USGS 7.5 MINUTE CUERVO, NM QUADRANGLE (1963),
 USGS 7.5 MINUTE SACATON DRAW, NM QUADRANGLE (1963),
 AND USGS 7.5 MINUTE MESA CHERISCO, NM QUADRANGLE (1963).

EXPLANATION:

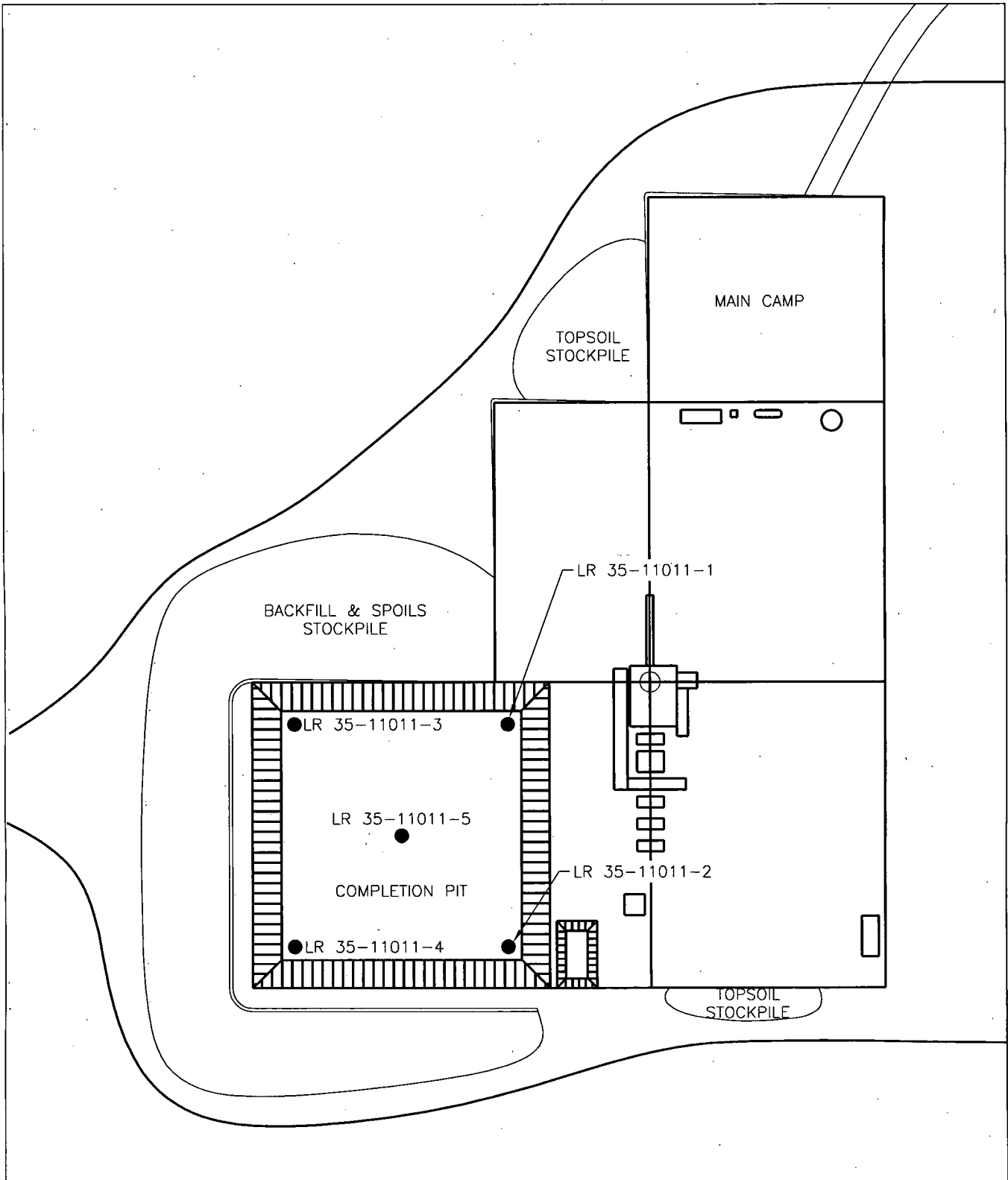


APPROXIMATE SITE LOCATION



SITE LOCATION MAP
 Latigo Ranch #3-5
 Shell Exploration & Production
 Section 5, Township 10N, Range 23E
 Guadalupe County, NM

By: BAL	Date: 03/22/11	Project No. HO10160210
AMEC		Figure 1

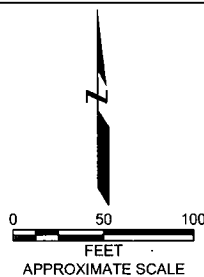


SOURCE: AMEC GEOMATRIX FIELD SKETCH

EXPLANATION:

LR 35-11011-1
● SAMPLE POINT

⊕ GAS WELL



SAMPLE LOCATION MAP
Latigo Ranch #3-5
Shell Exploration & Production
Section 5, Township 10N, Range 23E
Guadalupe County, NM

By: BAL Date: 03/22/11 Project No. HO10160210

AMEC

Figure 2

TABLES

Table 1
Latigo Ranch 3-5 Completion Pit Analytical Summary
Guadalupe County, New Mexico

Sample Number	Date Collected	Matrix	Diesel Range Organics EPA Method 8015B	Motor Oil Range Organics EPA Method 8015B	Gasoline Range Organics EPA Method 8015B	B, T, E, X (volatiles) EPA Method 8021B	Total Petroleum Hydrocarbons EPA Method 418.1	Anions (Chloride) EPA Method 418.1	Chloride Hach Low-Range	Chloride Hach High-Range	Comments
LR35-11011(1-5)	1/10/11	soil	<10	<50	<5	<0.05, <0.05, <0.05, <0.10	<20	1,400	<20	<287	Five point composite

NOTES:

All concentrations are in milligrams per kilogram (mg/kg)

B = Benzene

E = Ethylbenzene

NA = Not analyzed

T = Toluene

X = Xylenes

APPENDIX A
Photographic Log



Photo 1: Pit prior to commencement of fluid removal (looking northeast).



Photo 2: Pit after removing approximately half of the fluid (looking east).

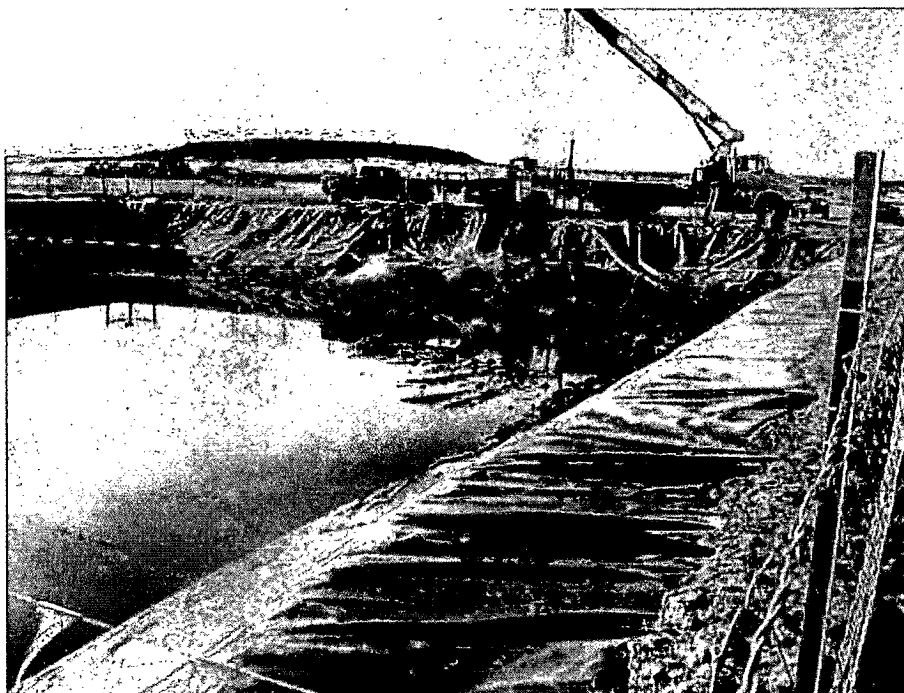


Photo 3: Mud exposed in pit after removing most of the fluid (looking southwest).

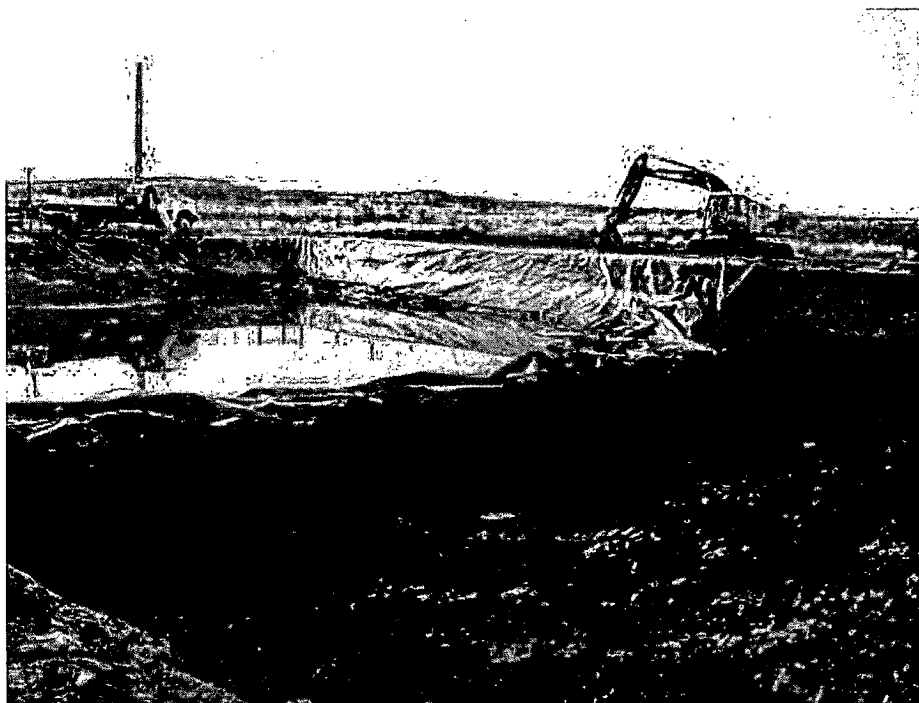


Photo 4: Removing the liner (looking west).



Photo 5: Removing the pit liner (looking east).



Photo 6: Staining in northeast corner of the pit bottom (looking west).



Photo 7: Pit bottom ready for sampling (looking east).

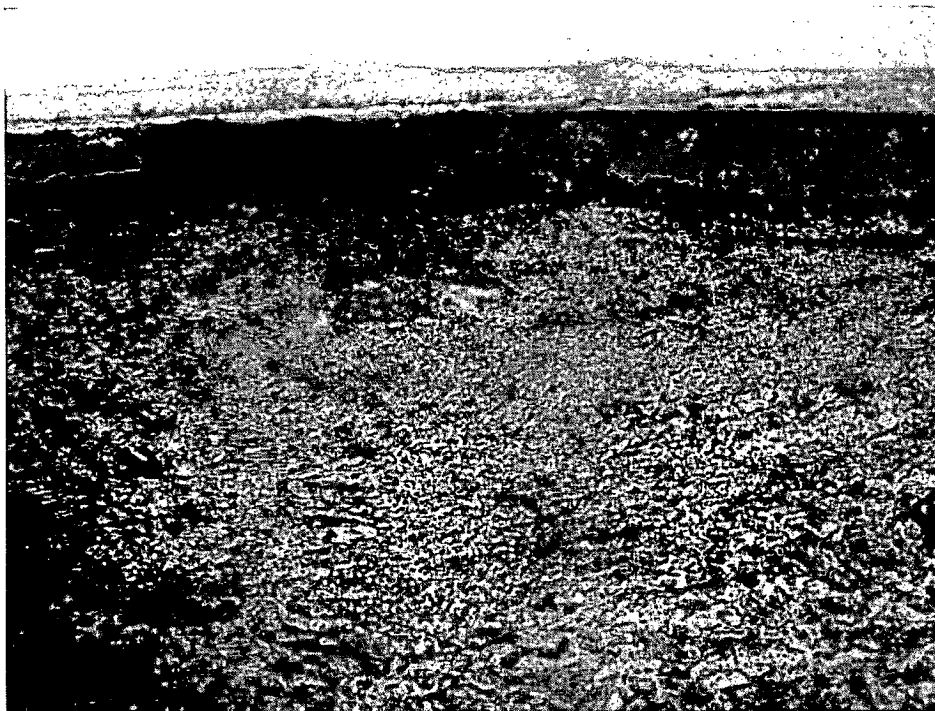


Photo 8: Pit bottom ready for sampling (looking west).



Photo 9: Sample point LR332-1 (excavated area in center).



Photo 10: Sample point LR332-2 (excavated area in center).



Photo 11: Sample point LR332-3 (excavated area in center).



Photo 12: Sample point LR332-4 (excavated area in center).



Photo 13: Sample point LR332-4 (excavated area behind sample bag)

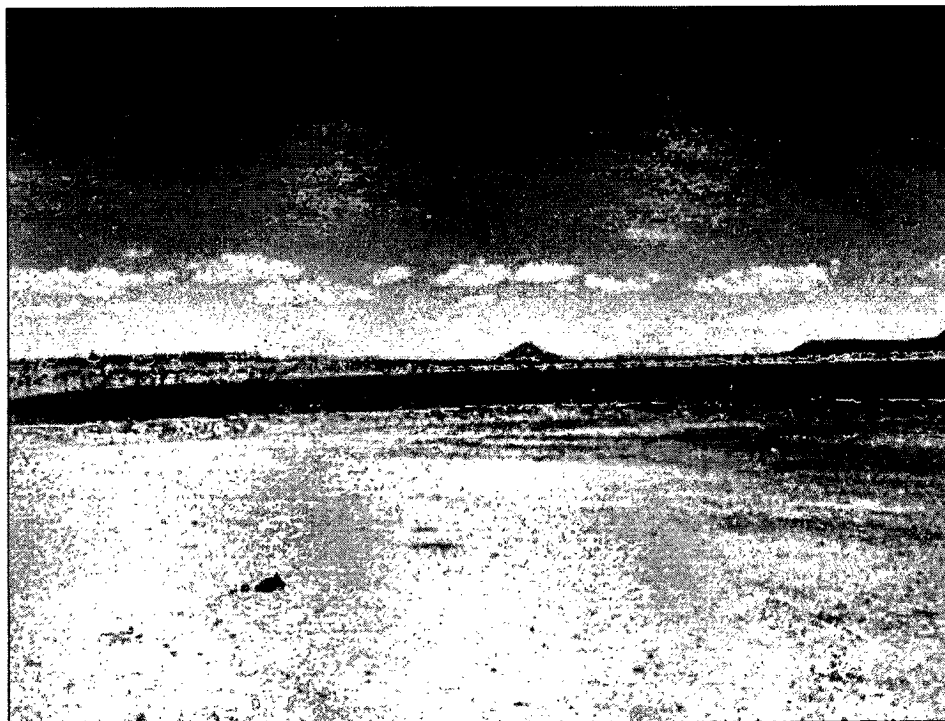


Photo 14: Backfill and compaction completed (looking northeast).

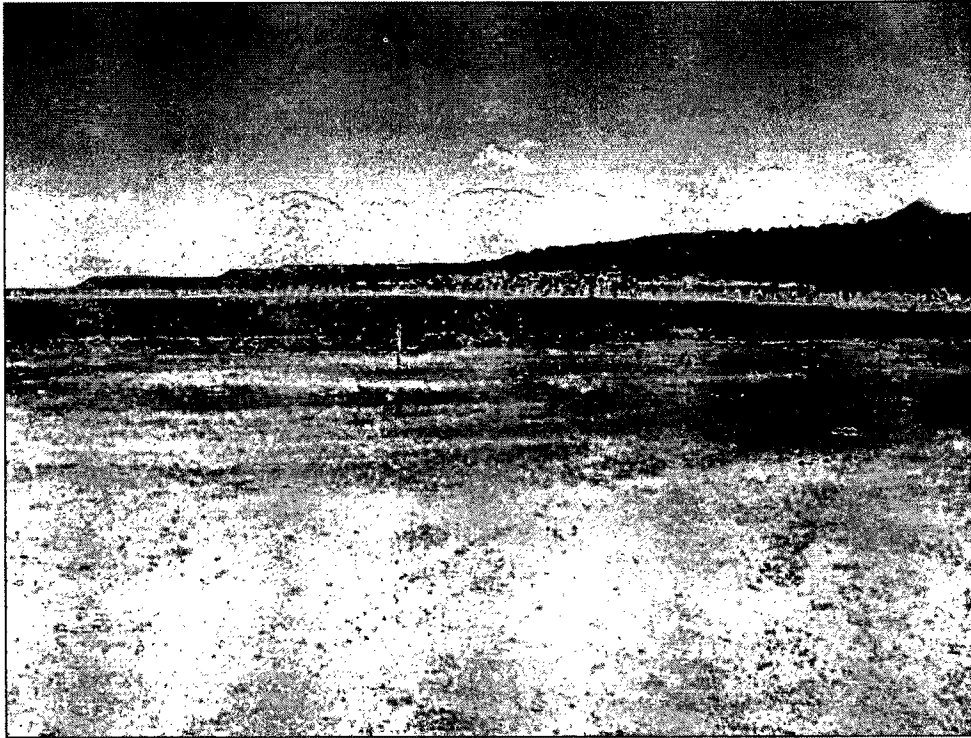


Photo 15: Backfill and compaction completed (looking east).

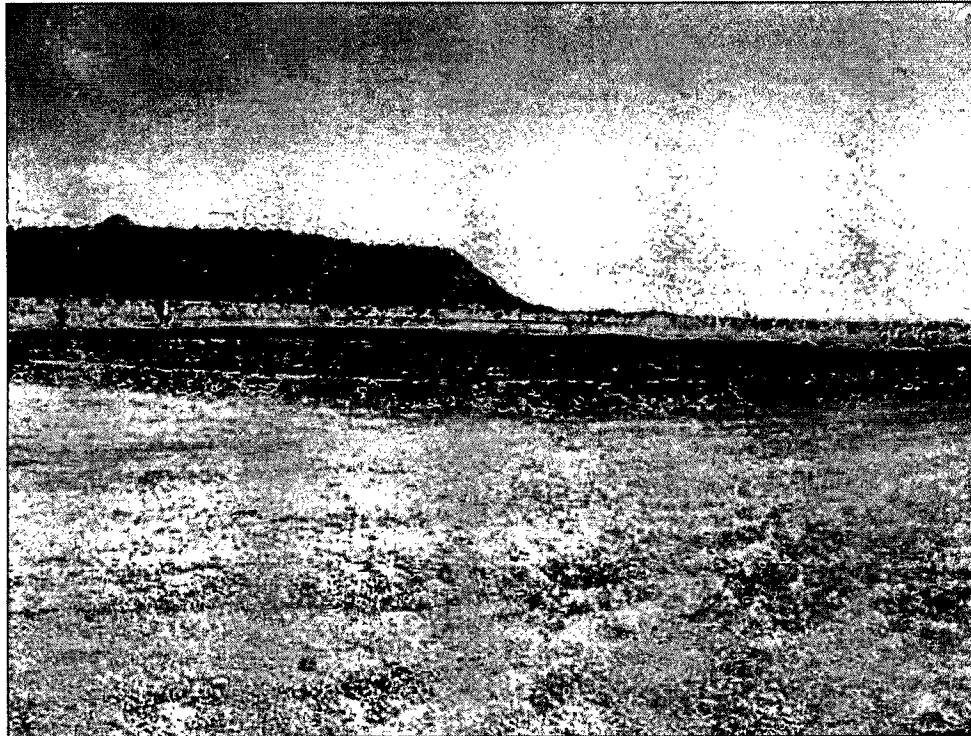


Photo 16: Backfill and compaction completed (looking southeast).

APPENDIX B

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



COVER LETTER

Thursday, January 13, 2011

David Janney
AMEC
8519 Jefferson Street, NE
Albuquerque, NM 87113

TEL: (505) 821-1801

FAX: (505) 821-7371

RE: Shell Cuervo

Order No.: 1101275

Dear David Janney:

Hall Environmental Analysis Laboratory, Inc. received 1 sample(s) on 1/10/2011 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.

Reporting limits are determined by EPA methodology.

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

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman, Laboratory Manager

NM Lab # NM9425 NM0901
AZ license # AZ0682
ORELAP Lab # NM100001
Texas Lab# T104704424-08-TX



Hall Environmental Analysis Laboratory, Inc.

Date: 13-Jan-11

CLIENT: AMEC
Lab Order: 1101275
Project: Shell Cuervo
Lab ID: 1101275-01

Client Sample ID: LR35-11011(1-5)
Collection Date: 1/10/2011 1:35:00 PM
Date Received: 1/10/2011
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	1/11/2011 7:43:39 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/11/2011 7:43:39 PM
Surr: DNOP	108	81.8-129		%REC	1	1/11/2011 7:43:39 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/12/2011 11:35:54 AM
Surr: BFB	101	89.7-125		%REC	1	1/12/2011 11:35:54 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	1/12/2011 11:35:54 AM
Toluene	ND	0.050		mg/Kg	1	1/12/2011 11:35:54 AM
Ethylbenzene	ND	0.050		mg/Kg	1	1/12/2011 11:35:54 AM
Xylenes, Total	ND	0.10		mg/Kg	1	1/12/2011 11:35:54 AM
Surr: 4-Bromofluorobenzene	123	88.9-151		%REC	1	1/12/2011 11:35:54 AM
EPA METHOD 300.0: ANIONS						Analyst: LJB
Chloride	1400	150		mg/Kg	100	1/11/2011 1:00:22 PM
EPA METHOD 418.1: TPH						Analyst: JB
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	1/12/2011

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: AMEC
Project: Shell Cuervo

Work Order: 1101275

Analyte	Result	Units	PQL	SPK Val	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 300.0: Anions											
Sample ID: MB-25174		MBLK				Batch ID: 25174		Analysis Date: 1/11/2011 12:25:32 PM			
Chloride	ND	mg/Kg	1.5								
Sample ID: LCS-25174		LCS				Batch ID: 25174		Analysis Date: 1/11/2011 12:42:57 PM			
Chloride	14.03	mg/Kg	1.5	15	0	93.6	90	110			
Method: EPA Method 418.1: TPH											
Sample ID: MB-25176		MBLK				Batch ID: 25176		Analysis Date: 1/12/2011			
Petroleum Hydrocarbons, TR	ND	mg/Kg	20								
Sample ID: LCS-25176		LCS				Batch ID: 25176		Analysis Date: 1/12/2011			
Petroleum Hydrocarbons, TR	113.3	mg/Kg	20	100	0	113	86.8	116			
Sample ID: LCSD-25176		LCSD				Batch ID: 25176		Analysis Date: 1/12/2011			
Petroleum Hydrocarbons, TR	114.7	mg/Kg	20	100	0	115	86.8	116	1.25	16.2	
Method: EPA Method 8015B: Diesel Range Organics											
Sample ID: MB-25175		MBLK				Batch ID: 25175		Analysis Date: 1/11/2011 6:03:12 PM			
Diesel Range Organics (DRO)	ND	mg/Kg	10								
Motor Oil Range Organics (MRO)	ND	mg/Kg	50								
Sample ID: LCS-25175		LCS				Batch ID: 25175		Analysis Date: 1/11/2011 6:37:06 PM			
Diesel Range Organics (DRO)	37.13	mg/Kg	10	50	0	74.3	66.2	120			
Sample ID: LCSD-25175		LCSD				Batch ID: 25175		Analysis Date: 1/11/2011 7:10:17 PM			
Diesel Range Organics (DRO)	41.12	mg/Kg	10	50	0	82.2	66.2	120	10.2	14.3	
Method: EPA Method 8015B: Gasoline Range											
Sample ID: MB-25170		MBLK				Batch ID: 25170		Analysis Date: 1/12/2011 6:16:46 PM			
Gasoline Range Organics (GRO)	ND	mg/Kg	5.0								
Sample ID: LCS-25170		LCS				Batch ID: 25170		Analysis Date: 1/12/2011 4:46:23 PM			
Gasoline Range Organics (GRO)	26.76	mg/Kg	5.0	25	0	107	95.7	120			
Method: EPA Method 8021B: Volatiles											
Sample ID: MB-25170		MBLK				Batch ID: 25170		Analysis Date: 1/12/2011 6:16:46 PM			
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-25170		LCS				Batch ID: 25170		Analysis Date: 1/12/2011 5:16:20 PM			
Benzene	1.041	mg/Kg	0.050	1	0	104	83.3	107			
Toluene	0.9832	mg/Kg	0.050	1	0	98.3	74.3	115			
Ethylbenzene	1.047	mg/Kg	0.050	1	0	105	80.9	122			
Xylenes, Total	3.221	mg/Kg	0.10	3	0	107	85.2	123			
Sample ID: LCSD-25170		LCSD				Batch ID: 25170		Analysis Date: 1/12/2011 5:46:33 PM			
Benzene	1.040	mg/Kg	0.050	1	0	104	83.3	107	0.135	15.6	
Toluene	0.9819	mg/Kg	0.050	1	0	98.2	74.3	115	0.132	19.2	
Ethylbenzene	1.053	mg/Kg	0.050	1	0	105	80.9	122	0.514	19.5	
Xylenes, Total	3.243	mg/Kg	0.10	3	0	108	85.2	123	0.659	17	

Qualifiers:

E Estimated value
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
NC Non-Chlorinated
R RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name AMEC

Date Received:

1/10/2011

Work Order Number: 1101275

Received by: AT

Sample ID labels checked by:

Initials AT

Checklist completed by:

Signature

Date

01/10/11

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 ☒

Number of preserved bottles checked for pH:

<2 >12 unless noted below.

Container/Temp Blank temperature?

2.7°

<6° C Acceptable

If given sufficient time to cool.

COMMENTS:

Client contacted:

Date contacted:

Person contacted:

Contacted by:

Regarding:

Comments:

Corrective Action

APPENDIX C
OCD Form C-144

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

Form C-144
Revised August 1, 2011

For temporary pits, closed-loop systems, and below-grade tanks, submit to the appropriate NMOCD District Office.
For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

**Pit, Closed-Loop System, Below-Grade Tank, or
Proposed Alternative Method Permit or Closure Plan Application**

- Type of action: ☐ Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method
☒ Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method
☐ Modification to an existing permit
☐ Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system, below-grade tank, or proposed alternative method

Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request

Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.

1. Operator: <u>SWEPI LP</u> OGRID #: <u>250036</u> Address: <u>P.O. Box 567, Houston, TX 77001 (Local contact: Shell Explor. & Prod. Co. 4582 S Ulster Pkwy., Suite 1400, Denver, CO 80237)</u> Facility or well name: <u>Latigo Ranch 3-5</u> API Number: <u>3001920137</u> OCD Permit Number: _____ U/L or Qtr/Qtr <u>K</u> Section <u>5</u> Township <u>10N</u> Range <u>23E</u> County: <u>Guadalupe</u> Center of Proposed Design: Latitude <u>35.119508</u> Longitude <u>104.526053</u> NAD: <input type="checkbox"/> 1927 <input checked="" type="checkbox"/> 1983 Surface Owner: <input type="checkbox"/> Federal <input type="checkbox"/> State <input checked="" type="checkbox"/> Private <input type="checkbox"/> Tribal Trust or Indian Allotment
2. <input type="checkbox"/> Pit: Subsection F or G of 19.15.17.11 NMAC Temporary: <input type="checkbox"/> Drilling <input type="checkbox"/> Workover <input type="checkbox"/> Permanent <input type="checkbox"/> Emergency <input type="checkbox"/> Cavitation <input type="checkbox"/> P&A <input type="checkbox"/> Lined <input type="checkbox"/> Unlined Liner type: Thickness _____ mil <input type="checkbox"/> LLDPE <input type="checkbox"/> HDPE <input type="checkbox"/> PVC <input type="checkbox"/> Other _____ <input type="checkbox"/> String-Reinforced Liner Seams: <input type="checkbox"/> Welded <input type="checkbox"/> Factory <input type="checkbox"/> Other _____ Volume: _____ bbl Dimensions: L _____ x W _____ x D _____
3. <input type="checkbox"/> Closed-loop System: Subsection H of 19.15.17.11 NMAC Type of Operation: <input type="checkbox"/> P&A <input type="checkbox"/> Drilling a new well <input type="checkbox"/> Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent) <input type="checkbox"/> Drying Pad <input type="checkbox"/> Above Ground Steel Tanks <input type="checkbox"/> Haul-off Bins <input type="checkbox"/> Other _____ <input type="checkbox"/> Lined <input type="checkbox"/> Unlined Liner type: Thickness _____ mil <input type="checkbox"/> LLDPE <input type="checkbox"/> HDPE <input type="checkbox"/> PVC <input type="checkbox"/> Other _____ Liner Seams: <input type="checkbox"/> Welded <input type="checkbox"/> Factory <input type="checkbox"/> Other _____
4. <input type="checkbox"/> Below-grade tank: Subsection I of 19.15.17.11 NMAC Volume: _____ bbl Type of fluid: _____ Tank Construction material: _____ <input type="checkbox"/> Secondary containment with leak detection <input type="checkbox"/> Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off <input type="checkbox"/> Visible sidewalls and liner <input type="checkbox"/> Visible sidewalls only <input type="checkbox"/> Other _____ Liner type: Thickness _____ mil <input type="checkbox"/> HDPE <input type="checkbox"/> PVC <input type="checkbox"/> Other _____
5. <input type="checkbox"/> Alternative Method: Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

6.	<p>Fencing: Subsection D of 19.15.17.11 NMAC (<i>Applies to permanent pits, temporary pits, and below-grade tanks</i>)</p> <p><input type="checkbox"/> Chain link, six feet in height, two strands of barbed wire at top (<i>Required if located within 1000 feet of a permanent residence, school, hospital, institution or church</i>)</p> <p><input type="checkbox"/> Four foot height, four strands of barbed wire evenly spaced between one and four feet</p> <p><input type="checkbox"/> Alternate. Please specify _____</p>																				
7.	<p>Netting: Subsection E of 19.15.17.11 NMAC (<i>Applies to permanent pits and permanent open top tanks</i>)</p> <p><input type="checkbox"/> Screen <input type="checkbox"/> Netting <input type="checkbox"/> Other _____</p> <p><input type="checkbox"/> Monthly inspections (If netting or screening is not physically feasible)</p>																				
8.	<p>Signs: Subsection C of 19.15.17.11 NMAC</p> <p><input type="checkbox"/> 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers</p> <p><input type="checkbox"/> Signed in compliance with 19.15.3.103 NMAC</p>																				
9.	<p>Administrative Approvals and Exceptions: Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance. Please check a box if one or more of the following is requested, if not leave blank:</p> <p><input type="checkbox"/> Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bureau office for consideration of approval.</p> <p><input type="checkbox"/> Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.</p>																				
10.	<p>Siting Criteria (regarding permitting): 19.15.17.10 NMAC</p> <p>Instructions: <i>The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drying pads or above-grade tanks associated with a closed-loop system.</i></p> <table border="0" style="width: 100%;"> <tr> <td style="width: 80%; vertical-align: top;"> <p>Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank.</p> <ul style="list-style-type: none"> - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells </td> <td style="width: 20%; vertical-align: top; text-align: right;"> <input type="checkbox"/> Yes <input type="checkbox"/> No </td> </tr> <tr> <td style="vertical-align: top;"> <p>Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).</p> <ul style="list-style-type: none"> - Topographic map; Visual inspection (certification) of the proposed site </td> <td style="vertical-align: top; text-align: right;"> <input type="checkbox"/> Yes <input type="checkbox"/> No </td> </tr> <tr> <td style="vertical-align: top;"> <p>Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (<i>Applies to temporary, emergency, or cavitation pits and below-grade tanks</i>)</p> <ul style="list-style-type: none"> - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image </td> <td style="vertical-align: top; text-align: right;"> <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA </td> </tr> <tr> <td style="vertical-align: top;"> <p>Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (<i>Applies to permanent pits</i>)</p> <ul style="list-style-type: none"> - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image </td> <td style="vertical-align: top; text-align: right;"> <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA </td> </tr> <tr> <td style="vertical-align: top;"> <p>Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.</p> <ul style="list-style-type: none"> - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site </td> <td style="vertical-align: top; text-align: right;"> <input type="checkbox"/> Yes <input type="checkbox"/> No </td> </tr> <tr> <td style="vertical-align: top;"> <p>Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended.</p> <ul style="list-style-type: none"> - Written confirmation or verification from the municipality; Written approval obtained from the municipality </td> <td style="vertical-align: top; text-align: right;"> <input type="checkbox"/> Yes <input type="checkbox"/> No </td> </tr> <tr> <td style="vertical-align: top;"> <p>Within 500 feet of a wetland.</p> <ul style="list-style-type: none"> - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site </td> <td style="vertical-align: top; text-align: right;"> <input type="checkbox"/> Yes <input type="checkbox"/> No </td> </tr> <tr> <td style="vertical-align: top;"> <p>Within the area overlying a subsurface mine.</p> <ul style="list-style-type: none"> - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division </td> <td style="vertical-align: top; text-align: right;"> <input type="checkbox"/> Yes <input type="checkbox"/> No </td> </tr> <tr> <td style="vertical-align: top;"> <p>Within an unstable area.</p> <ul style="list-style-type: none"> - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map </td> <td style="vertical-align: top; text-align: right;"> <input type="checkbox"/> Yes <input type="checkbox"/> No </td> </tr> <tr> <td style="vertical-align: top;"> <p>Within a 100-year floodplain.</p> <ul style="list-style-type: none"> - FEMA map </td> <td style="vertical-align: top; text-align: right;"> <input type="checkbox"/> Yes <input type="checkbox"/> No </td> </tr> </table>	<p>Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank.</p> <ul style="list-style-type: none"> - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells 	<input type="checkbox"/> Yes <input type="checkbox"/> No	<p>Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).</p> <ul style="list-style-type: none"> - Topographic map; Visual inspection (certification) of the proposed site 	<input type="checkbox"/> Yes <input type="checkbox"/> No	<p>Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (<i>Applies to temporary, emergency, or cavitation pits and below-grade tanks</i>)</p> <ul style="list-style-type: none"> - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<p>Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (<i>Applies to permanent pits</i>)</p> <ul style="list-style-type: none"> - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<p>Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.</p> <ul style="list-style-type: none"> - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site 	<input type="checkbox"/> Yes <input type="checkbox"/> No	<p>Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended.</p> <ul style="list-style-type: none"> - Written confirmation or verification from the municipality; Written approval obtained from the municipality 	<input type="checkbox"/> Yes <input type="checkbox"/> No	<p>Within 500 feet of a wetland.</p> <ul style="list-style-type: none"> - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 	<input type="checkbox"/> Yes <input type="checkbox"/> No	<p>Within the area overlying a subsurface mine.</p> <ul style="list-style-type: none"> - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division 	<input type="checkbox"/> Yes <input type="checkbox"/> No	<p>Within an unstable area.</p> <ul style="list-style-type: none"> - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	<input type="checkbox"/> Yes <input type="checkbox"/> No	<p>Within a 100-year floodplain.</p> <ul style="list-style-type: none"> - FEMA map 	<input type="checkbox"/> Yes <input type="checkbox"/> No
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<p>Within an unstable area.</p> <ul style="list-style-type: none"> - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	<input type="checkbox"/> Yes <input type="checkbox"/> No																				
<p>Within a 100-year floodplain.</p> <ul style="list-style-type: none"> - FEMA map 	<input type="checkbox"/> Yes <input type="checkbox"/> No																				

11.

Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC**Instructions:** Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.

- ☐ Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC
- ☐ Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC
- ☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
- ☐ Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
- ☐ Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC

☐ Previously Approved Design (attach copy of design) API Number: _____ or Permit Number: _____

12.

Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC**Instructions:** Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.

- ☐ Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9
- ☐ Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC
- ☐ Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
- ☐ Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC

☐ Previously Approved Design (attach copy of design) API Number: _____

☐ Previously Approved Operating and Maintenance Plan API Number: _____ (Applies only to closed-loop system that use above ground steel tanks or haul-off bins and propose to implement waste removal for closure)

13.

Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC**Instructions:** Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.

- ☐ Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC
- ☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
- ☐ Climatological Factors Assessment
- ☐ Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Dike, Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Quality Control/Quality Assurance Construction and Installation Plan
- ☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
- ☐ Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Nuisance or Hazardous Odors, including H₂S, Prevention Plan
- ☐ Emergency Response Plan
- ☐ Oil Field Waste Stream Characterization
- ☐ Monitoring and Inspection Plan
- ☐ Erosion Control Plan
- ☐ Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC

14.

Proposed Closure: 19.15.17.13 NMAC**Instructions:** Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.

Type: ☐ Drilling ☐ Workover ☐ Emergency ☐ Cavitation ☐ P&A ☐ Permanent Pit ☐ Below-grade Tank ☐ Closed-loop System

☒ Alternative - Temporary Completion Pit

Proposed Closure Method: ☐ Waste Excavation and Removal Temporary Completion Pit

☒ Waste Removal (Closed-loop systems only)

☐ On-site Closure Method (Only for temporary pits and closed-loop systems)

☐ In-place Burial ☐ On-site Trench Burial

☐ Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)

15.

Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) **Instructions:** Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.

- ☐ Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC
- ☐ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC
- ☐ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)
- ☐ Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
- ☐ Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC
- ☐ Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

16.

Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13.D NMAC)

Instructions: Please indentify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if more than two facilities are required.

Disposal Facility Name: _____ Disposal Facility Permit Number: _____

Disposal Facility Name: _____ Disposal Facility Permit Number: _____

Will any of the proposed closed-loop system operations and associated activities occur on or in areas that *will not* be used for future service and operations?

☐ Yes (If yes, please provide the information below) ☒ No

Required for impacted areas which will not be used for future service and operations:

- ☐ Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
☐ Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC
☐ Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

17.

Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC

Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.

Ground water is less than 50 feet below the bottom of the buried waste.

- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells

☐ Yes ☐ No
☐ NA

Ground water is between 50 and 100 feet below the bottom of the buried waste

- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells

☐ Yes ☐ No
☐ NA

Ground water is more than 100 feet below the bottom of the buried waste.

- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells

☐ Yes ☐ No
☐ NA

Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).

- Topographic map; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.

- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image

☐ Yes ☐ No

Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.

- NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended.

- Written confirmation or verification from the municipality; Written approval obtained from the municipality

☐ Yes ☐ No

Within 500 feet of a wetland.

- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

Within the area overlying a subsurface mine.

- Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division

☐ Yes ☐ No

Within an unstable area.

- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map

☐ Yes ☐ No

Within a 100-year floodplain.

- FEMA map

☐ Yes ☐ No

18.

On-Site Closure Plan Checklist: (19.15.17.13 NMAC) **Instructions:** Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.

- ☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
☐ Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC
☐ Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.11 NMAC
☐ Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.11 NMAC
☐ Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC
☐ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC
☐ Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC
☐ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved)
☐ Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
☐ Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC
☐ Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

19. **Operator Application Certification:**
 I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief.

Name (Print): _____ Title: _____

Signature: _____ Date: _____

e-mail address: _____ Telephone: _____

20. **OCD Approval:** ☐ Permit Application (including closure plan) ☐ Closure Plan (only) ☐ OCD Conditions (see attachment)

OCD Representative Signature: _____ **Approval Date:** _____

Title: _____ **OCD Permit Number:** _____

21. **Closure Report (required within 60 days of closure completion):** Subsection K of 19.15.17.13 NMAC
Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed.

☒ **Closure Completion Date:** 1/17/2011

22. **Closure Method:**
☒ Waste Excavation and Removal ☐ On-Site Closure Method ☐ Alternative Closure Method ☐ Waste Removal (Closed-loop systems only)
☐ If different from approved plan, please explain.

23. **Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only:**
Instructions: Please identify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities were utilized.

Disposal Facility Name: Gandy-Marley, Inc. Tatum, NM Disposal Facility Permit Number: NM-711-1-020

Disposal Facility Name: _____ Disposal Facility Permit Number: _____

Were the closed-loop system operations and associated activities performed on or in areas that *will not* be used for future service and operations?
☒ Yes (If yes, please demonstrate compliance to the items below) ☐ No

Required for impacted areas which will not be used for future service and operations:
☐ Site Reclamation (Photo Documentation)
☐ Soil Backfilling and Cover Installation
☐ Re-vegetation Application Rates and Seeding Technique

24. **Closure Report Attachment Checklist:** *Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached.*

☐ Proof of Closure Notice (surface owner and division) – **Not applicable**
☐ Proof of Deed Notice (required for on-site closure) – **Not applicable**
☒ Plot Plan (for on-site closures and temporary pits) – **See Figure 2 of Closure Report**
☒ Confirmation Sampling Analytical Results (if applicable) – **See Appendix B of Closure Report**
☐ Waste Material Sampling Analytical Results (required for on-site closure) – **Not applicable**
☒ Disposal Facility Name and Permit Number - **Included in Box 23 above and in Closure Report**
☒ Soil Backfilling and Cover Installation - **Description and Photo Documentation included in Closure Report**
☒ Re-vegetation Application Rates and Seeding Technique - **Described in Closure Report**
☒ Site Reclamation (Photo Documentation) - **See Appendix A of Closure Report**

On-site Closure Location: Latitude _____ Longitude _____ NAD: ☐ 1927 ☐ 1983

25. **Operator Closure Certification:**
 I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.

Name (Print): Michael L. Bergstrom Title: Regulatory Advisor

Signature: Michael L. Bergstrom Date: 3/13/2012

e-mail address: Michael.Bergstrom@shell.com Telephone: 303.222.6347