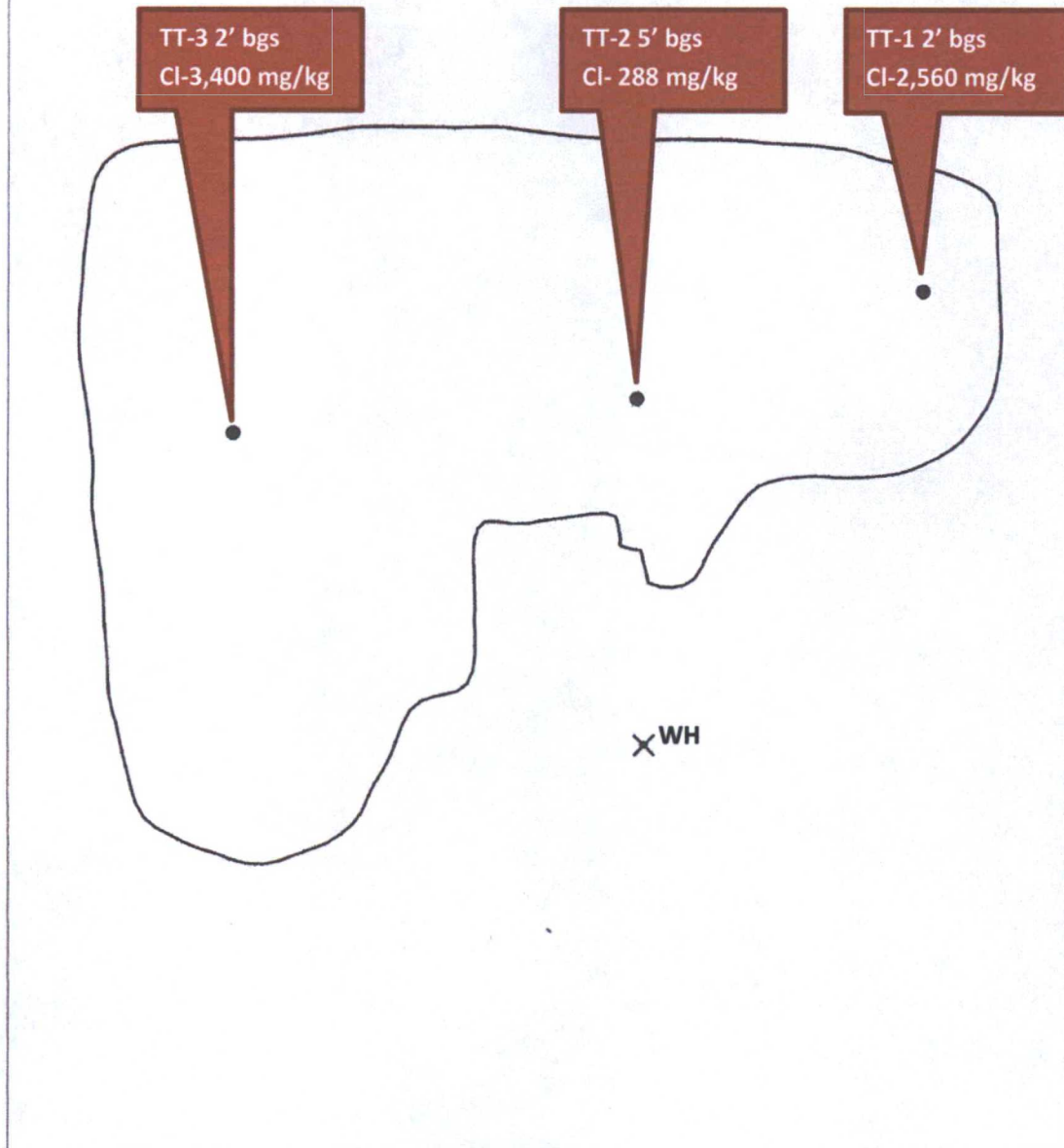


3002527828

HOBBS OCD

FEB 07 2013

RECEIVED



GAN-12-001

Lat/Long
WGS 1984



Scale 1:500
0 60.00
Feet

GAN-12-001_1.cor
2/4/2013

GPS Pathfinder® Office
 Trimble

February 01, 2013

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: EOG CAMANCHE STATE #4

Enclosed are the results of analyses for samples received by the laboratory on 01/29/13 14:00.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received: 01/29/2013
Reported: 02/01/2013
Project Name: EOG CAMANCHE STATE #4
Project Number: GAN-12-001
Project Location: LEA COUNTY, NM

Sampling Date: 01/29/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: TT-1 2' BGS (H300260-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2560	16.0	02/01/2013	ND	432	108	400	0.00	

Sample ID: TT-2 5' BGS (H300260-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	02/01/2013	ND	432	108	400	0.00	

Sample ID: TT-3 2' BGS (H300260-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3400	16.0	02/01/2013	ND	432	108	400	0.00		

Cardinal Laboratories

* = Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

Cardinal Laboratories

* = Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240
(505) 393-2326 Fax (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 1

Company Name: Safety & Environmental Solutions, Inc.		P.O. #:		BILL TO: ANALYSIS REQUEST											
Project Manager: Bob Allen		Company: Same													
Address: 703 East Clinton		Attn:													
City: Hobbs		State: NM		Zip: 88240											
Phone #: 575-397-0510		Fax #: 575-393-4388													
Project #: GAN-12-001		Project Owner: EOG													
Project Name: EOG, CANNABINE STATE #4		City:													
Project Location: Lee County		State:		Zip:											
Sampler Name: Soia, Gary		Phone #:													
Fax #:															
FOR USE ONLY															
Lab I.D.	Sample I.D.	MATRIX		PRESERV		SAMPLING		DATE						TIME	
H300260	1	GROUNDWATER	WASTEWATER	SLUDGE	OTHER:	ICE / COOL	OTHER:	01/29	0850	CHLORIDES					
	2	GROUNDWATER	WASTEWATER	SLUDGE	OTHER:	ICE / COOL	OTHER:	01/29	0900						
	3	GROUNDWATER	WASTEWATER	SLUDGE	OTHER:	ICE / COOL	OTHER:	01/29	0910						
PLEASE NOTE: Laboratory and Diagnostic Chemicals Safety and Health's exclusive responsibility for any data relating to the amount paid by the client for the analyses. No claims including those for negligence and any other cause of liability shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for negligence or consequential damages, loss of use, or loss of profit incurred by client. Its subsidiaries, affiliates or employees and its but not its representatives or subcontractors shall be held responsible for the above stated results or otherwise.															
Sampler Relinquished: Sonjmy		Received By: Jodi Newton		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #: <input type="checkbox"/> Yes <input type="checkbox"/> No		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #: <input type="checkbox"/> Yes <input type="checkbox"/> No		REMARKS:			
Relinquished By: Sonjmy		Received By: Jodi Newton		Temp. 20		Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: Jodi Newton							
Delivered By: (Circle One)		Date: 01/29/13		Time: 400											
Sampler - UPS - Bus - Other:		Date:		Time:											

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.

#26

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88203
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

HOBBS OCD

State of New Mexico

Energy Minerals and Natural Resources

Department

Oil Conservation Division

1220 South St. Francis Dr.

Santa Fe, NM 87505

HOBBS OCD

Form C-144 CLEZ
July 21, 2008

SEP 29 2011

For closed-loop systems that only use above ground steel tanks or haul-off bins and propose to implement waste removal for closure, submit to the appropriate NMOCD District Office.

RECEIVED

RECEIVED

Closed-Loop System Permit or Closure Plan Application

(that only use above ground steel tanks or haul-off bins and propose to implement waste removal for closure)

Type of action: ☐ Permit ☒ Closure

Instructions: Please submit one application (Form C-144 CLEZ) per individual closed-loop system request. For any application request other than for a closed-loop system that only use above ground steel tanks or haul-off bins and propose to implement waste removal for closure, please submit a Form C-144.

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: EOG Resources, Inc.

OGRID #: 7377

Address: P.O. Box 2267 Midland, TX 79702

Facility or well name: Comanche State Unit 4

API Number: 30-025-27828

OCD Permit Number: 91-03247

U/L or Qtr/Qtr H Section 2 Township 21S Range 33E County: Lea

Center of Proposed Design: Latitude _____ Longitude _____ NAD: ☐ 1927 ☐ 1983

Surface Owner: ☐ Federal ☒ State ☐ Private ☐ Tribal Trust or Indian Allotment

2. ☒ Closed-loop System: Subsection H of 19.15.17.11 NMAC

Operation: ☐ Drilling a new well ☐ Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent) ☒ P&A

☒ Above Ground Steel Tanks or ☒ Haul-off Bins

3. Signs: Subsection C of 19.15.17.11 NMAC

☐ 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers

☒ Signed in compliance with 19.15.3.103 NMAC

4. 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.

☐ 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 Box 5) - 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: _____

5. 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 identify 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: Controlled Recovery, Inc.

Disposal Facility Permit Number: NM-01-0006

Disposal Facility Name: Grady Marley, Inc.

Disposal Facility Permit Number: NM-01-0019

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) Revision ☐ 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

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): Stan Wagner

Title: Regulatory Analyst

Signature: Stan Wagner

Date: 5/12/2011

e-mail address: stan_wagner@egoresources.com

Telephone: 432-686-3689

7. **OCD Approval:** ☐ Permit Application (including closure plan) ☒ Closure Plan (only)

OCD Representative Signature: *David A. Eyler*

Approval Date: MAY 18 2011

Title: DISTRICT 1 SUPERVISOR

OCD Permit Number: P1-03247

8. **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: 09/22/11

9. **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. GANDY MARLEY NM 01-0019

Disposal Facility Name: CRI

Disposal Facility Permit Number: NM 01-0006

Disposal Facility Name: SUNDANCE

Disposal Facility Permit Number: NM 01-0003

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

10. **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): DAVID A. EYLER

Title: AGENT

Signature: *David A. Eyler*

Date: 09/23/11

e-mail address: deyler@milagro-res.com

Telephone: (432) 687-3033

ELG 10-3-2011

EOG
CAMARCHE STATE UNIT #4
H-9-215-33E
30-025-27828

CLOSED LOOP 3/15/10

C-144 CLEZ 5/12/11 - INCLD SITE RECLAMATION PLAN?

WENT TO ZANDY, CRI, SUNDANCE BUT DID IT?

deylee@milagro-res.com

9/29/11 C-144 CLEZ

PLUGHING - 10/3/11 - EL SIGNED OFF 7 RCD
5/12/11 CLEZ | B. HILL SIGN OFF 5/18/11 9/29/11

3/15/10 CLEZ signed off EL - 3/15/10

C-103 TO PLUG RCD 3/12/10 SIGNED OFF 3/15/10

SOUTH OF 176 - LOOK FOR NEW COG PLUG RD - GOES STRAIGHT
THERE - 2.5 MI WEST OF DANNYS HOUSE

APPEARS PIT WAS FOR CLOSED LOOP SYST - WERE TO RECLAIM
SITE - NEVER DID



135P

1080 TRUCKING, LTD
575-391-1331
HOBBS, NM

BOON COMANCHE STATE #4 9/27/11















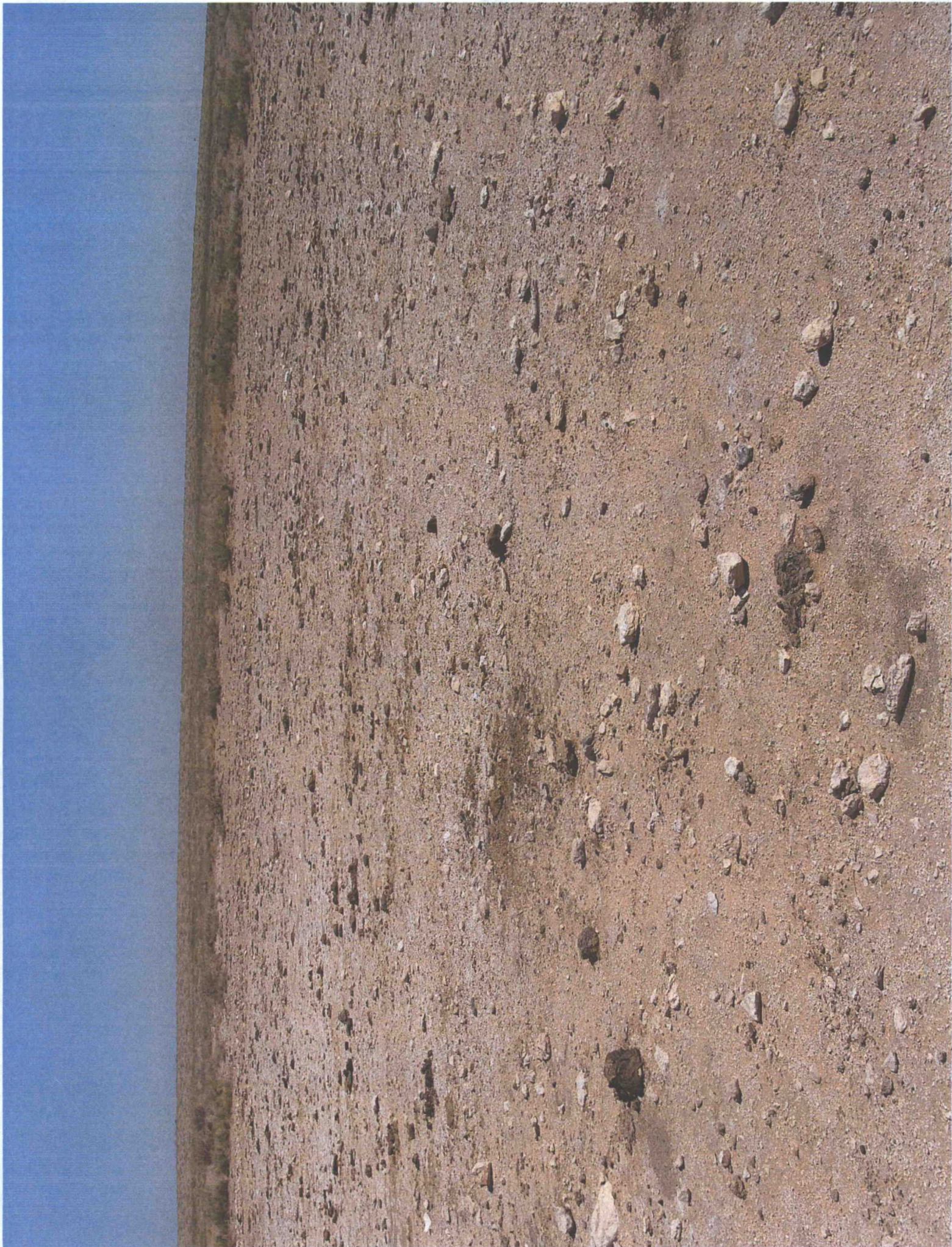






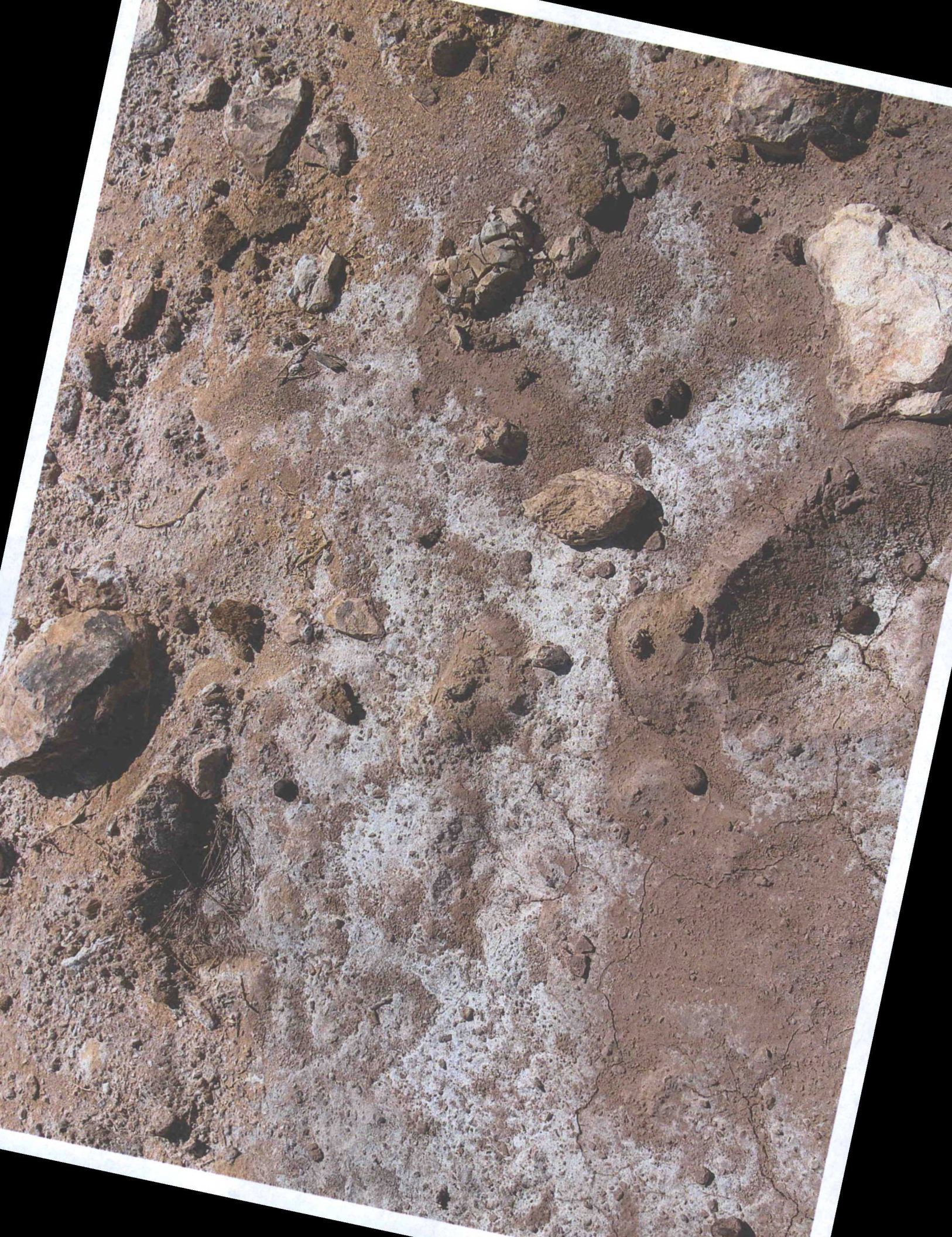


































EOG COMANCHE SU #4

9/27/11 McDONNOLD LJO #14

4- @ LJO #14

- KENNY ROUMBS, McDONNOLD
- ALBERT SANCHEZ, BIG TIME
- 2' SCRAPPED @ AREA W
OF FORMER TANK AREA
- 1' AT REST OF SITE
- CALC HE MARK WORKED
TO REPLACE FORMER
CALICHE
- SAND & SEED REST
- WILL RETURN FOR
CHECK OUT FINAL COVER

7 EOG COMANCHE STATE UNIT #4

- PA MARKER, FRAC TANK
& OPEN REWORK PIT (WORKOVER)
PRESENT
- GREAT VOLUME OF
BRINE RELEASED
FROM PIT AND FRAC
TANK - HUY STAIN
& RESIDUE
- TORN LINER - RESIDUE IN

-152-

T 9/27/11 EOG COMANCHE SU #4



PIT

EOG
COMANCHE
SU #4

1455-MQ-31025

Jeff Link
9/27/11

-153-

Submit 3 Copies To Appropriate District
Office
District I
1625 N. French Dr., Hobbs, NM 87240
District II
1301 W. Grand Ave., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87401
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
June 19, 2008

RECEIVED
MAR 12 2010
HOBSOCD

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

WELL API NO. 30-025-27828
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No. LG-1145
7. Lease Name or Unit Agreement Name: Comanche State Unit
8. Well Number 4
9. OGRID Number 7377
10. Pool name or Wildcat North Leqq (Delaware)
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3840.4' GR

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.)

1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <u>Dry Hole</u>	7. Lease Name or Unit Agreement Name: Comanche State Unit
2. Name of Operator EOG Resources, Inc.	8. Well Number 4
3. Address of Operator P.O. Box 2267 Midland, TX 79702	9. OGRID Number 7377
4. Well Location Unit Letter <u>H</u> : <u>1980</u> feet from the <u>North</u> line and <u>660</u> feet from the <u>East</u> line Section <u>9</u> Township <u>21S</u> Range <u>33E</u> NMPM County <u>Lea</u>	10. Pool name or Wildcat North Leqq (Delaware)
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3840.4' GR	

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

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☒
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
DOWNHOLE COMMINGLE ☐

OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐

OTHER: ☐

LOCK 7520

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 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

- Set CIBP @ +/- 8620' and cap w/ 35' of cement.
- Cut and pull 5-1/2" casing @ +/- 5950'.
- Spot 40 sx cement plug at 5-1/2" casing stub. Tag.
- Spot 60 sx cement plug from 5530' to 5671'. Tag.
- Spot 40 sx cement plug from 3760' to 3860'. Tag.
- Spot 40 sx cement plug from 2520' to 2620'. Tag.
- Pump 195 sx cement plug from 601' to surface.
- Cut off wellhead and weld on dry hole marker.

Move plugging rig out
around middle of JUNE
RAN camera on 6/10/11 ✓
* STUB 5 1/2" @ 5950' - RIM OF
Able to get into 5 1/2" stub -
RDmo mid-July!!!

Spud Date:

Rig Release Date:

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

SIGNATURE Stan Wagner TITLE Regulatory Analyst DATE 3/9/10

Type or print name Stan Wagner E-mail address: _____ PHONE 432-686-3689

For State Use Only

APPROVED BY [Signature] TITLE STAFF MGR DATE 3-15-10

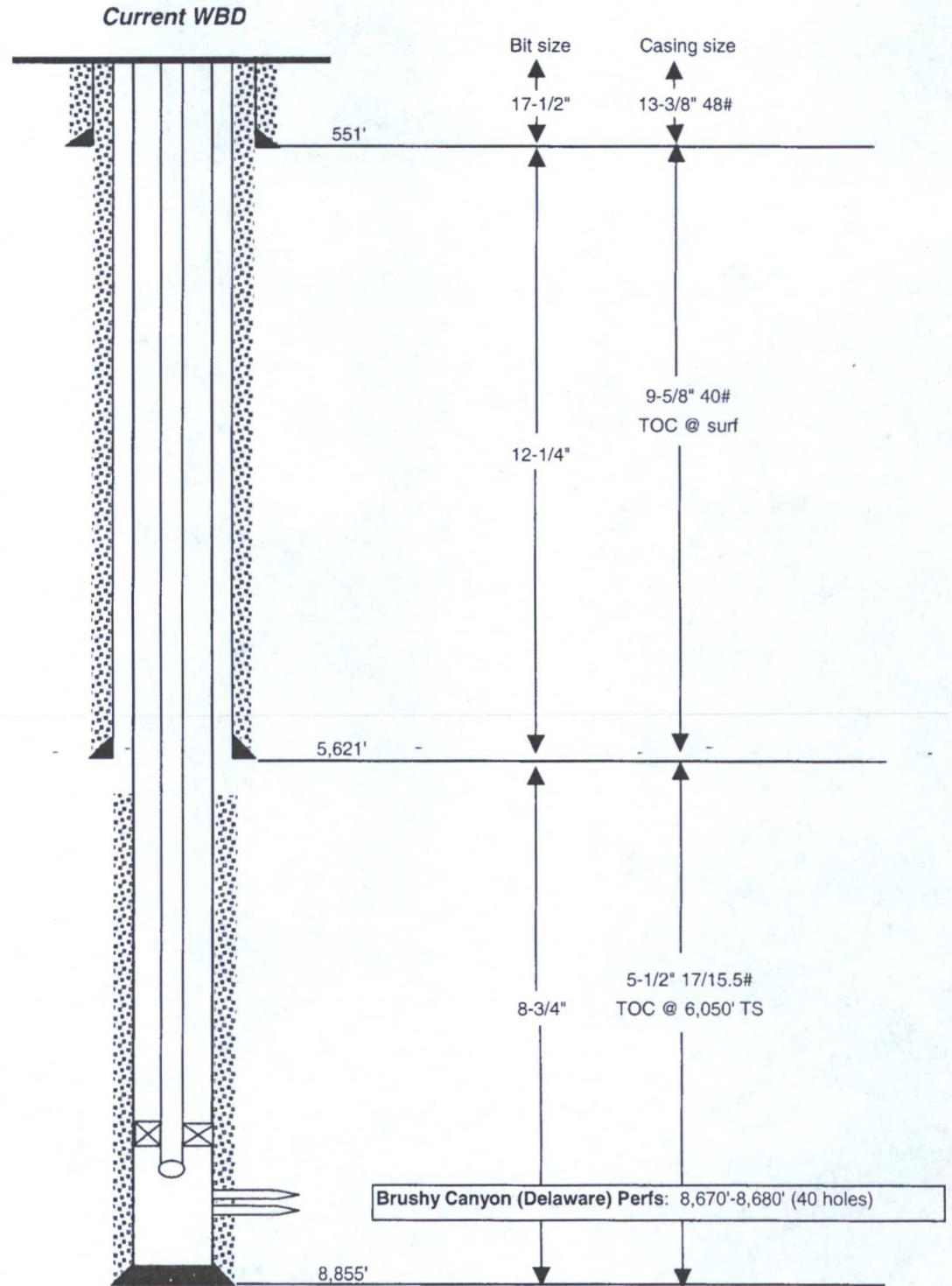
Conditions of Approval (if any):

THE OIL CONSERVATION DIVISION MUST
BE NOTIFIED 24 HOURS PRIOR TO THE
BEGINNING OF PLUGGING OPERATIONS



Comanche State Unit No. 4

1,980' FNL & 660' FEL
Sec. 9, T21S, R33E
Lea County, New Mexico
API 30-025-27828



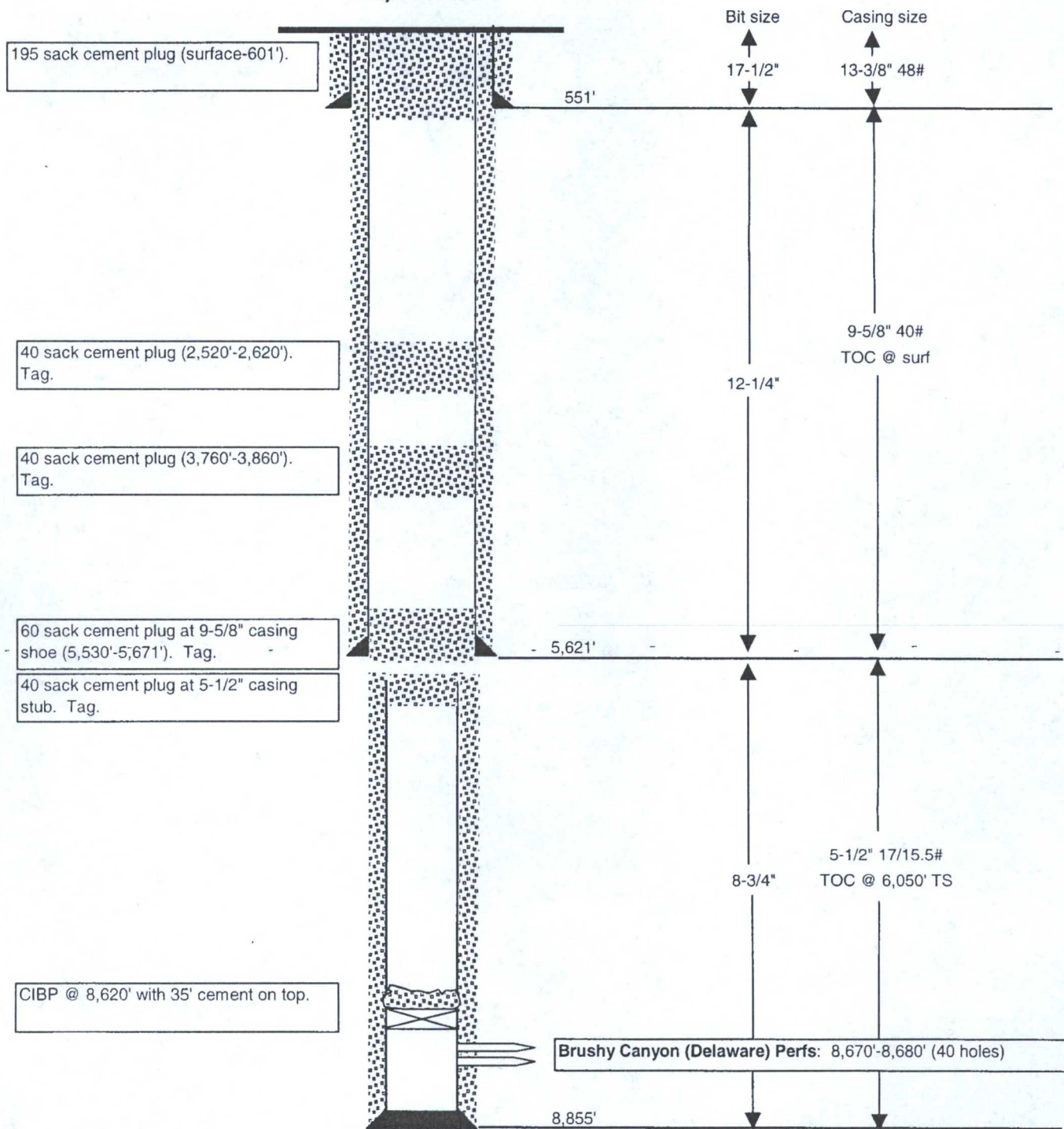
PBTB 8,829'



Comanche State Unit No. 4

1,980' FNL & 660' FEL
Sec. 9, T21S, R33E
Lea County, New Mexico
API 30-025-27828

Proposed P&A



PBTD 8,829'



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

March 14, 2013

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

HOBBS OCD

MAR 15 2013

RECEIVED

RE: COMMANCHE STATE #4

Enclosed are the results of analyses for samples received by the laboratory on 03/04/13 8:00.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

3/15

30 025 27820

Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received: 03/04/2013
Reported: 03/14/2013
Project Name: COMMANCHE STATE #4
Project Number: GAN-12-001
Project Location: LEA COUNTY, NM

Sampling Date: 03/01/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: BH-1 5' BGS (H300545-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5120	16.0	03/05/2013	ND	448	112	400	3.64		

Sample ID: BH-1 10' BGS (H300545-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8560	16.0	03/05/2013	ND	448	112	400	3.64		

Sample ID: BH-1 15' BGS (H300545-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13200	16.0	03/05/2013	ND	448	112	400	3.64	

Sample ID: BH-1 20' BGS (H300545-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2840	16.0	03/05/2013	ND	448	112	400	3.64		

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received: 03/04/2013
Reported: 03/14/2013
Project Name: COMMANCHE STATE #4
Project Number: GAN-12-001
Project Location: LEA COUNTY, NM

Sampling Date: 03/01/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: BH-1 25' BGS (H300545-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1710	16.0	03/05/2013	ND	448	112	400	3.64		

Sample ID: BH-1 30' BGS (H300545-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1710	16.0	03/05/2013	ND	448	112	400	3.64		

Sample ID: BH-1 35' BGS (H300545-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	03/05/2013	ND	448	112	400	3.64	

Sample ID: BH-1 40' BGS (H300545-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	03/05/2013	ND	448	112	400	3.64	

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received: 03/04/2013
Reported: 03/14/2013
Project Name: COMMANCHE STATE #4
Project Number: GAN-12-001
Project Location: LEA COUNTY, NM

Sampling Date: 03/01/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: BH-1 45' BGS (H300545-09)

BTEX 8021B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2013	ND	2.09	104	2.00	0.212	
Toluene*	<0.050	0.050	03/11/2013	ND	2.07	103	2.00	1.16	
Ethylbenzene*	<0.050	0.050	03/11/2013	ND	1.99	99.6	2.00	1.26	
Total Xylenes*	<0.150	0.150	03/11/2013	ND	6.02	100	6.00	1.76	
Total BTEX	<0.300	0.300	03/11/2013	ND					

Surrogate: 4-Bromofluorobenzene (PII) 116 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/05/2013	ND	448	112	400	3.64	
TPH 418.1	mg/kg		Analyzed By: CK						

TPH 418.1		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	<10.0	10.0	03/13/2013	ND	140	107	131		SUB-SS

Sample ID: BH-2 10' BGS (H300545-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	9040	16.0	03/05/2013	ND	432	108	400	0.00		

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Analytical Results For:

 Safety & Environmental Solutions
 Bob Allen
 703 East Clinton
 Hobbs NM, 88240
 Fax To: (575) 393-4388

 Received: 03/04/2013
 Reported: 03/14/2013
 Project Name: COMMANCHE STATE #4
 Project Number: GAN-12-001
 Project Location: LEA COUNTY, NM

 Sampling Date: 03/01/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: BH-2 15' BGS (H300545-11)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7760	16.0	03/05/2013	ND	432	108	400	0.00		

Sample ID: BH-2 20' BGS (H300545-12)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2120	16.0	03/05/2013	ND	432	108	400	0.00		

Sample ID: BH-2 25' BGS (H300545-13)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	03/05/2013	ND	432	108	400	0.00	

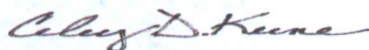
Sample ID: BH-2 30' BGS (H300545-14)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	03/05/2013	ND	432	108	400	0.00		

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Received: 03/04/2013
Reported: 03/14/2013
Project Name: COMMANCHE STATE #4
Project Number: GAN-12-001
Project Location: LEA COUNTY, NM

Sampling Date: 03/01/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: BH-2 35' BGS (H300545-15)

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/11/2013	ND	2.09	104	2.00	0.212		
Toluene*	<0.050	0.050	03/11/2013	ND	2.07	103	2.00	1.16		
Ethylbenzene*	<0.050	0.050	03/11/2013	ND	1.99	99.6	2.00	1.26		
Total Xylenes*	<0.150	0.150	03/11/2013	ND	6.02	100	6.00	1.76		
Total BTEX	<0.300	0.300	03/11/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 115 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	03/05/2013	ND	432	108	400	0.00	

TPH 418.1		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	<10.0	10.0	03/13/2013	ND	140	107	131		SUB-SS

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager

Page 1 of 2

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.

MAY 10 2013

Conoco Phillips
Shoebar 4 Well #2**Introduction****RECEIVED**

This report presents Corrective Action Plan (CAP) at the Shoebar 4 Well #2. The site is located in Unit Letter M, Section 4, Township 17S, Range 35E in Lea County, New Mexico. Impacted surface areas are owned by State of New Mexico. Diamondback Disposal Services, Inc. (Diamondback) was contacted April 30, 2013 by Mr. Justin Wright, of Conoco Phillips Inc, to perform remediation activities at the battery site. All work will be performed in general accordance with the New Mexico Oil Conservation Division (NMOCD) rules and regulations. The following sections present: an overview, and recommendations work to be performed on site.

Overview

The spill site is located inside a bermed tank battery facility on a COPC location. Approximately 24 bbls of produced water was lost, with none being recovered due to absorption. Approximately 144 square feet of HDPE lined dike area was impacted. The depth to groundwater in the area is estimated to be 61' below ground surface (BGS) based on the information, reviewed at the New Mexico State Engineer's Office in Roswell, NM. The potential contaminates of concern are mid to high-level concentrations of Chlorides that were lost due to a ruptured 2" drain line valve.

Work Plan

Diamondback Disposal Services proposes to excavate below ground surface to the depth of the HDPE liner throughout burned area, excavating as close to the tanks as possible without affecting the structural integrity of the tanks. During the excavation process, special attention will be directed toward protecting the HDPE liners integrity. This process will generate approximately 20 cubic yards of impacted material that will be loaded, transported and disposed of at an NMOCD, COPC approved disposal facility. Import approved backfill material, place and compact around tanks, and re-contour any disturbed berms. With the initial installation of the HDPE liner, vadose zones should be protected from any remaining migrating contaminates. Therefore analytical confirmation shall be conducted upon final abatement of facility.

approved
Jeffrey Seking
Environmental Specialist

NMOCD - DIST 1
5/14/13