

State of Colorado  
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 Phone: (303)894-2100 Fax: (303)894-2109



DOCUMENT  
#2216652

SUNDRY NOTICE

Submit original plus one copy. This form is to be used for general, technical and environmental sundry information. For proposed or completed operations, describe in full on Technical Information Page (Page 2 of this form). Identify well or other facility by API Number or by OGCC Facility ID. Operator shall send an informational copy of all sundry notices for wells located in High Density Areas to the Local Government Designee (Rule 603b).

RECEIVED  
10/3/2011

1. OGCC Operator Number: 10091	4. Contact Name: Chris Freeman	Complete the Attachment Checklist
2. Name of Operator: Berry Petroleum Company	Phone: 303-999-4400	
3. Address: 1999 Broadway, Suite 3700	Fax: 303-999-4402	OP OGCC
City: Denver State: CO Zip: 80202		
5. API Number: 05-045-12349	OGCC Facility ID Number: 335597	Survey Plat
6. Well/Facility Name: Chevron L04 696	7. Well/Facility Number: Chevron 5-3D	Directional Survey
8. Location (Qtr/Sec, Twp, Rng, Meridian): SW NW Sec. 4, T6S, R96W		Surface Eqpm Diagram
9. County: Garfield	10. Field Name:	Technical Info Page
11. Federal, Indian or State Lease Number:		Other

General Notice

<input type="checkbox"/> CHANGE OF LOCATION: Attach New Survey Plat (a change of surface qtr/qr is substantive and requires a new permit)	
Change of Surface Footage from Exterior Section Lines:	<input type="checkbox"/> FNU/SL <input type="checkbox"/> FEL/FWL
Change of Surface Footage to Exterior Section Lines:	<input type="checkbox"/> <input type="checkbox"/>
Change of Bottomhole Footage from Exterior Section Lines:	<input type="checkbox"/> <input type="checkbox"/>
Change of Bottomhole Footage to Exterior Section Lines:	<input type="checkbox"/> <input type="checkbox"/> attach directional survey
Bottomhole location Qtr/Sec, Twp, Rng, Mer	
Latitude	Distance to nearest property line
Longitude	Distance to nearest lease line
Ground Elevation	Distance to nearest well same formation
	Distance to nearest bldg, public rd, utility or RR
	Is location in a High Density Area (rule 603b)? Yes/No <input type="checkbox"/>
	Surface owner consultation date:
GPS DATA:	
Date of Measurement	PDOP Reading
	Instrument Operator's Name
<input type="checkbox"/> CHANGE SPACING UNIT	
Formation	Formation Code
Spacing order number	Unit Acreage
	Unit configuration
<input type="checkbox"/> Remove from surface bond	
Signed surface use agreement attached	
<input type="checkbox"/> CHANGE OF OPERATOR (prior to drilling):	
Effective Date:	
Plugging Bond: <input type="checkbox"/> Blanket <input type="checkbox"/> Individual	
<input type="checkbox"/> CHANGE WELL NAME	
From:	NUMBER
To:	
Effective Date:	
<input type="checkbox"/> ABANDONED LOCATION:	
Was location ever built? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Is site ready for inspection? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Date Ready for inspection:	
<input type="checkbox"/> NOTICE OF CONTINUED SHUT IN STATUS	
Date well shut in or temporarily abandoned:	
Has Production Equipment been removed from site? <input type="checkbox"/> Yes <input type="checkbox"/> No	
MIT required if shut in longer than two years. Date of last MIT	
<input type="checkbox"/> SPUD DATE:	
<input type="checkbox"/> REQUEST FOR CONFIDENTIAL STATUS (if most from date casing set)	
<input type="checkbox"/> SUBSEQUENT REPORT OF STAGE, SQUEEZE OR REMEDIAL CEMENT WORK	
Method used	Cementing tool setting/perf depth
Cement volume	Cement top
Cement bottom	Date
*submit cbl and cement job summaries	
<input type="checkbox"/> RECLAMATION: Attach technical page describing final reclamation procedures per Rule 1004.	
Final reclamation will commence on approximately	<input type="checkbox"/> Final reclamation is completed and site is ready for inspection.

Technical Engineering/Environmental Notice

<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Report of Work Done
Approximate Start Date:	Date Work Completed:
Details of work must be described in full on Technical Information Page (Page 2 must be submitted.)	
<input type="checkbox"/> Intent to Recomplete (submit form 2)	<input type="checkbox"/> Request to Vent or Flare
<input type="checkbox"/> Change Drilling Plans	<input type="checkbox"/> Repair Well
<input type="checkbox"/> Gross Interval Changed?	<input type="checkbox"/> Rule 502 variance requested
<input type="checkbox"/> Casing/Cementing Program Change	<input checked="" type="checkbox"/> Other: background arsenic values
	<input type="checkbox"/> E&P Waste Disposal
	<input type="checkbox"/> Beneficial Reuse of E&P Waste
	<input type="checkbox"/> Status Update/Change of Remediation Plans
	for Spills and Releases

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct and complete.

Signed: Chris Freeman Date: 10/3/11 Email: CPF@bry.com  
Print Name: Chris P. Freeman Title: Regional Manager of Environmental, Health, and Safety

OGCC Approved: Chris Canfield Title: FOR Date: 10/25/2011  
CONDITIONS OF APPROVAL, IF ANY: Chris Canfield  
EPS NW Region

TECHNICAL INFORMATION PAGE



FOR OGCC USE ONLY

1. OGCC Operator Number: 10091 API Number: 05-045-12349
2. Name of Operator: Berry Petroleum Company OGCC Facility ID # 335597
3. Well/Facility Name: Chevron L04 696 Well/Facility Number: Chevron 5-3D
4. Location (QtrQtr, Sec, Twp, Rng, Meridian): SW NW Sec. 4, T6S, R96W

This form is to be completed whenever a Sundry Notice is submitted requiring detailed report of work to be performed or completed. This form shall be transmitted within 30 days of work completed as a "subsequent" report and must accompany Form 4, page 1.

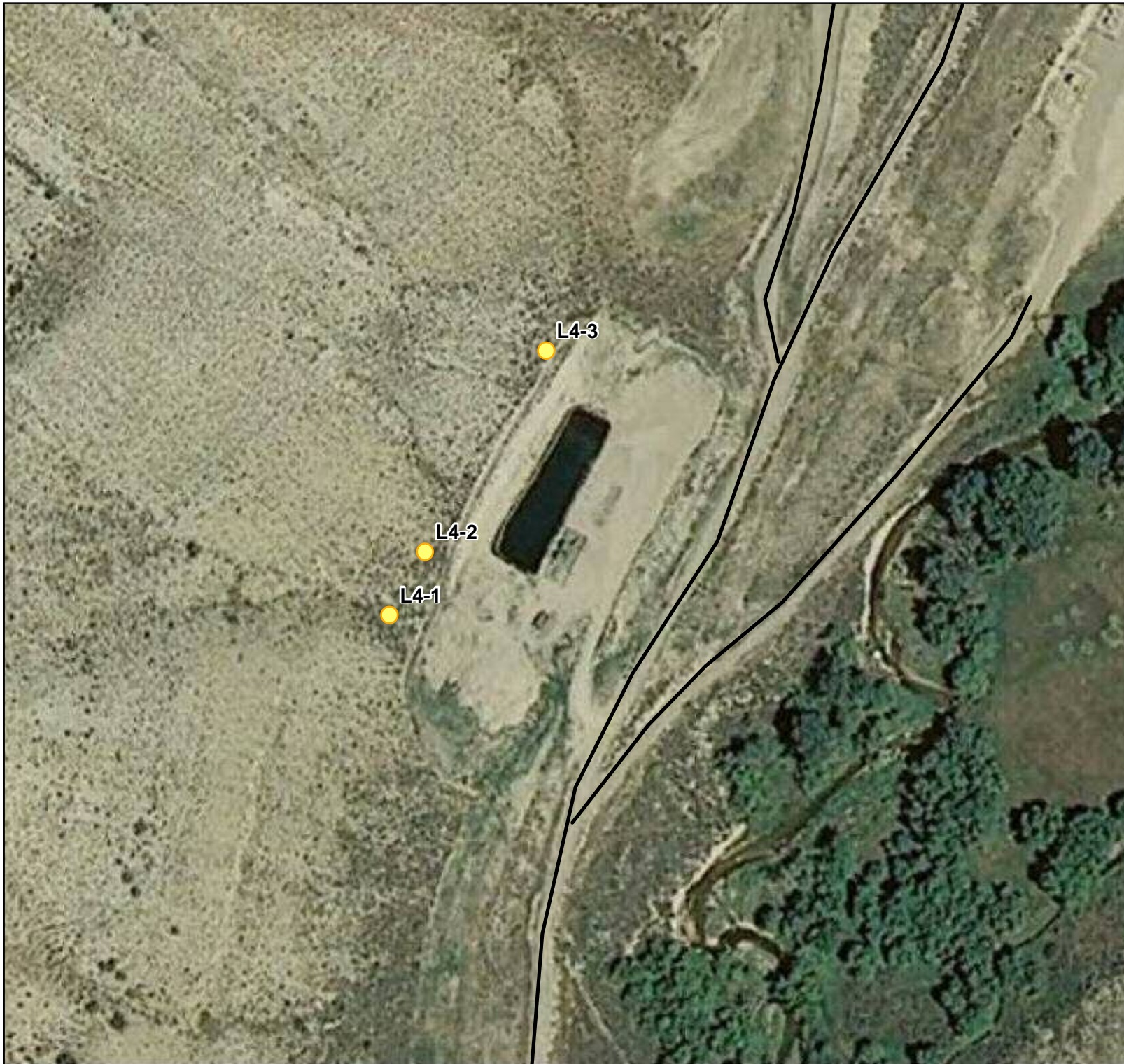
5. **DESCRIBE PROPOSED OR COMPLETED OPERATIONS**

The operator requests a variance from the Table 910-1 standard for arsenic in soil based on the following:

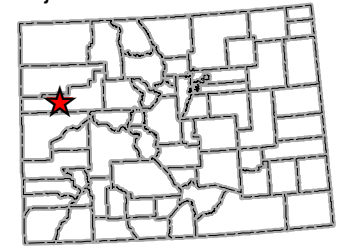
Samples collected from the pit bottom subsoils and stockpiled cuttings had arsenic concentrations of 13 mg/kg and 10 mg/kg, respectively. Three background grab soil samples were collected from undisturbed areas near the L-04 well pad on August 13, 2011 and analyzed for arsenic only. The three soil samples had arsenic concentrations of 12 mg/kg, 9.9 mg/kg, and 13 mg/kg, well above the Table 910-1 standard of 0.39mg/kg. Based on these results, and the methodology recommended by the COGCC staff for establishing background arsenic levels, the allowable concentration of arsenic for this site is 14.3 mg/kg (maximum plus 10%).

Since the arsenic concentrations in the remediated cuttings pile are below the allowable background arsenic level, the operator proposes to bury this material in the reserve pit and proceed with interim reclamation of this site.







Project Location

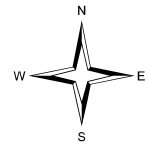


COLORADO

**Legend**

 Sample Location

 Existing Road



0 50 100 200 300  
Feet

**Berry Petroleum Company**

**L-04 Well Pad  
Sample  
Locations for  
Background Arsenic  
Concentrations**

*Garfield County, Colorado*

August 2011

Figure 1

Nicholson GeoSolutions, LLC



12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Dave Nicholson  
Berry Petroleum Company - Denver, CO  
1999 Broadway, Suite 3700  
Denver, CO 80202

## Report Summary

Thursday August 18, 2011

Report Number: L531307

Samples Received: 08/16/11

Client Project:

Description: Berry Pit Reclamation

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

Mark W. Beasley , ESC Representative

### Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487  
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704, ND - R-140  
NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233  
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032008A,  
TX - T104704245, OK-9915

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

This report may not be reproduced, except in full, without written approval from ESC Lab Sciences. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



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REPORT OF ANALYSIS

Dave Nicholson  
Berry Petroleum Company - Denver, C  
1999 Broadway, Suite 3700  
Denver, CO 80202

August 18, 2011

Date Received : August 16, 2011  
Description : Berry Pit Reclamation

Sample ID : L4-1 0-4IN

Collected By :  
Collection Date : 08/13/11 07:50

ESC Sample # : L531307-01

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	12.	1.0	mg/kg	6010B	08/18/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

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Reported: 08/18/11 11:10 Printed: 08/18/11 11:10



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REPORT OF ANALYSIS

Dave Nicholson  
Berry Petroleum Company - Denver, C  
1999 Broadway, Suite 3700  
Denver, CO 80202

August 18, 2011

Date Received : August 16, 2011  
Description : Berry Pit Reclamation

Sample ID : L4-2 4-8IN

Collected By :  
Collection Date : 08/13/11 07:55

ESC Sample # : L531307-02

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	9.9	1.0	mg/kg	6010B	08/18/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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REPORT OF ANALYSIS

Dave Nicholson  
Berry Petroleum Company - Denver, C  
1999 Broadway, Suite 3700  
Denver, CO 80202

August 18, 2011

Date Received : August 16, 2011  
Description : Berry Pit Reclamation

Sample ID : L4-3 8-12IN

Collected By :  
Collection Date : 08/13/11 08:00

ESC Sample # : L531307-03

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	13.	1.0	mg/kg	6010B	08/18/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

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Reported: 08/18/11 11:10 Printed: 08/18/11 11:10

[illegible]





**YOUR LAB OF CHOICE**

Berry Petroleum Company - Denver, CO  
Dave Nicholson  
1999 Broadway, Suite 3700

Denver, CO 80202

Quality Assurance Report  
Level II

L531307

12065 Lebanon Rd.  
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Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed			
		Units	% Rec						
Arsenic	< 1	mg/kg			WG550835	08/17/11 22:40			
Arsenic	< 1	mg/kg			WG550843	08/17/11 20:19			
Arsenic	< 1	mg/kg			WG550738	08/17/11 23:07			
Analyte	Units	Result	Duplicate		Limit	Ref Samp	Batch		
			Duplicate	RPD					
Arsenic	mg/kg	9.70	11.0	12.4	20	L531307-25	WG550835		
Arsenic	mg/kg	25.0	24.0	3.28	20	L531307-39	WG550843		
Arsenic	mg/kg	3.30	3.90	15.8	20	L531273-04	WG550738		
Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch			
		Known Val	Result						
Arsenic	mg/kg	192	188.	97.9	78.6-120.8	WG550835			
Arsenic	mg/kg	92.6	93.6	101.	82.9-117	WG550843			
Arsenic	mg/kg	192	202.	105.	78.6-120.8	WG550738			
Analyte	Units	MS Res	Matrix Spike		% Rec	Limit	Ref Samp	Batch	
			Ref Res	TV					
Arsenic	mg/kg	51.6	11.0	50	81.2	75-125	L531307-25	WG550835	
Arsenic	mg/kg	84.0	24.0	10	120.	75-125	L531307-39	WG550843	
Arsenic	mg/kg	52.8	3.90	50	97.8	75-125	L531273-04	WG550738	
Analyte	Units	MSD	Matrix Spike Duplicate		Limit	RPD	Limit	Ref Samp	Batch
			Ref	%Rec					
Arsenic	mg/kg	49.2	51.6	76.4	75-125	4.76	20	L531307-25	WG550835
Arsenic	mg/kg	79.2	84.0	110.	75-125	5.88	20	L531307-39	WG550843
Arsenic	mg/kg	51.2	52.8	94.6	75-125	3.08	20	L531273-04	WG550738

Batch number /Run number / Sample number cross reference

WG550835: R1818292: L531307-07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25

WG550843: R1818293: L531307-26 27 28 29 30 31 32 33 34 35 36 37 38 39

WG550738: R1818474: L531307-01 02 03 04 05 06

\* \* Calculations are performed prior to rounding of reported values.

\* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



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August 18, 2011

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.