

Submit 1 Copy To Appropriate District Office
 District I – (575) 393-6161
 1625 N. French Dr., Hobbs, NM 88240
 District II – (575) 748-1283
 811 S. First St., Artesia, NM 88210
 District III – (505) 334-6178
 1000 Rio Brazos Rd., Aztec, NM 87410
 District IV – (505) 476-3460
 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
 Energy, Minerals and Natural Resources

Form C-103
 Revised July 18, 2013

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

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.)		WELL API NO. 30-045-06772
1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other		5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input type="checkbox"/>
2. Name of Operator Enduring Resources		6. State Oil & Gas Lease No.
3. Address of Operator 200 Energy Court Farmington, NM 87401		7. Lease Name or Unit Agreement Name J Q MARSHALL 001
4. Well Location Unit Letter <u>N</u> : <u>990</u> feet from the <u>S</u> line and <u>1650</u> feet from the <u>W</u> line Section <u>1</u> Township <u>27N</u> Range <u>09W</u> NMPM County <u>SAN JUAN</u>		8. Well Number 001
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 5967		9. OGRID Number 372286
		10. Pool name or Wildcat BLANCO PC SOUTH

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

NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> TEMPORARILY ABANDON <input type="checkbox"/> CHANGE PLANS <input type="checkbox"/> PULL OR ALTER CASING <input type="checkbox"/> MULTIPLE COMPL <input type="checkbox"/> DOWNHOLE COMMINGLE <input type="checkbox"/> CLOSED-LOOP SYSTEM <input type="checkbox"/> OTHER: Stop quarterly BH water testing <input checked="" type="checkbox"/>		SUBSEQUENT REPORT OF: REMEDIAL WORK <input type="checkbox"/> ALTERING CASING <input type="checkbox"/> COMMENCE DRILLING OPNS. <input type="checkbox"/> P AND A <input type="checkbox"/> CASING/CEMENT JOB <input type="checkbox"/> OTHER: <input type="checkbox"/>	
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13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Enduring Resources IV LLC requests the cessation of water testing on the JQ Marshall 1 after successfully passing one quarterly test and seven quarterly test attempts with no pressure and no water over the span of two years. This well was monitored by the NMOCD as part of the Bradenhead program.

Sampling schedule with results and lab analysis report are attached.

NMOCD
JAN 30 2020
DISTRICT III

** If water is encountered during regular Bradenhead testing collect a sample*

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 *Heather Huntington* TITLE Permitting Technician DATE 1/28/2020

Type or print name Heather Huntington E-mail address: hhuntington@enduringresources.com PHONE: 505-636-9751

For State Use Only
 APPROVED BY: *Rob Bell* TITLE Dist. III Supervisor DATE 3/24/20
 Conditions of Approval (if any): *AV*

J Q Marshall #1 Bradenhead Water Sampling

Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl Benzene (ppb)	Toyal Xylene (ppb)	Comments
NA	10	750	750	620	WQCC STANDARDS
9/26/2017	20	60	8	60	
12/8/2017	NA	NA	NA	NA	Not enough water to sample
1/17/2018	3.07	11	1.45	11.3	slow flow. Barely enough water to sample. Slow drip. Only one voa collected.
5/9/2018	NA	NA	NA	NA	Not enough water to sample
9/20/2018	NA	NA	NA	NA	NO WATER
11/27/2018	NA	NA	NA	NA	NO WATER
3/19/2019	NA	NA	NA	NA	Not enough water to sample
6/18/2019	NA	NA	NA	NA	No pressure, No water to sample
9/20/2019	NA	NA	NA	NA	No pressure, No water to sample
12/12/2019	NA	NA	NA	NA	No pressure, No water to sample

Enduring Resources

Sample Delivery Group: L964339
Samples Received: 01/19/2018
Project Number:
Description: JQ Marshall #1
Site: JQ MARSHALL #1
Report To: James McDaniel
332 County Road 3100
Aztec, NM 87410

Entire Report Reviewed By:



Daphne Richards
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



BRADENHEAD WATER L964339-01 GW

Collected by
James McDaniel

Collected date/time
01/17/18 13:24

Received date/time
01/19/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method 8021B	WG1065019	1	01/22/18 20:40	01/22/18 20:40	ACE

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Daphne Richards
Technical Service Representative

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.00307		0.000500	1	01/22/2018 20:40	WG1065019
Toluene	0.0110		0.00100	1	01/22/2018 20:40	WG1065019
Ethylbenzene	0.00145		0.000500	1	01/22/2018 20:40	WG1065019
Total Xylene	0.0113		0.00150	1	01/22/2018 20:40	WG1065019
(S) a,a,a-Trifluorotoluene(PID)	101		80.0-121		01/22/2018 20:40	WG1065019

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC) by Method 8021B

[L964339-01](#)

Method Blank (MB)

(MB) R3281289-3 01/22/18 17:01

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Benzene	U		0.000190	0.000500
Toluene	U		0.000412	0.00100
Ethylbenzene	U		0.000160	0.000500
Total Xylene	U		0.000510	0.00150
(S) a,a,a-Trifluorotoluene(PID)	102			80.0-121

Cp

Tc

Ss

Cn

Sr

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3281289-1 01/22/18 15:51 • (LCSD) R3281289-2 01/22/18 16:14

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Benzene	0.0500	0.0435	0.0443	86.9	88.7	71.0-121			1.96	20
Toluene	0.0500	0.0440	0.0445	88.1	89.0	72.0-120			1.04	20
Ethylbenzene	0.0500	0.0447	0.0457	89.4	91.4	75.0-122			2.22	20
Total Xylene	0.150	0.136	0.138	90.4	92.0	74.0-124			1.75	20
(S) a,a,a-Trifluorotoluene(PID)				102	102	80.0-121				

Qc

GI

AI

Sc

L964323-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L964323-01 01/22/18 23:47 • (MS) R3281289-4 01/23/18 00:10 • (MSD) R3281289-5 01/23/18 00:33

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Benzene	0.0500	0.00214	0.0315	0.0320	58.8	59.8	1	29.0-146			1.47	20
Toluene	0.0500	ND	0.0311	0.0318	62.2	63.6	1	35.0-140			2.19	20
Ethylbenzene	0.0500	0.00423	0.0414	0.0431	74.3	77.7	1	39.0-143			4.02	20
Total Xylene	0.150	0.0133	0.127	0.133	75.9	79.6	1	42.0-142			4.23	20
(S) a,a,a-Trifluorotoluene(PID)					101	101		80.0-121				



Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Cp

Tc

Ss

Cn

Sr

Qc

GI

AI

Sc

Qualifier Description

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

