January 22, 2018



City of Longmont 385 Kimbark Street Longmont, Colorado 80501

Attn: Mr. Jason Elkins

P: (303) 651-8310

E: Jason.Elkins@longmontcolorado.gov

Re: Longmont 8-10K Well Site Background Evaluation

Longmont, Colorado

Terracon Project No. 22177046

Dear Mr. Elkins:

Terracon Consultants, Inc. (Terracon) has prepared the following Background Evaluation for the above referenced site.

1.0 RESEARCH FINDINGS

The Longmont 8-10K well (API Number 05-123-18510) was drilled and completed in November 1994 under Colorado Oil and Gas Conservation Commission (COGCC) permit number 2085944, issued on August 5, 1994, for a new natural gas well. The well was completed to approximately 7952 feet below grade surface (bgs). The Operator of record on the well completion report is Calvin Petroleum Corporation of Fort Lupton, Colorado.

On September 3, 2008 an Application for Permit to recomplete and operate the Longmont 8-10K well was submitted to COGCC listing Top Operating Company (TOP) of Denver, Colorado as the operator of the well. As stated in the February 13, 2013 COGCC Field Inspection Form (667601133), it was noted that the plunger lift equipment at the wellhead was dripping oil at multiple points including the master valve. Oil stained soils and weeds within the tank berm required clean up. Unused equipment within the separator berm required removal. The corrective action suggested was to repair all leaks and clean up oil on wellhead. There is no Field Operation Notice on record stating that the corrective actions for inspection 667601133 were completed.

A Well Abandonment Report was submitted to COGCC on September 22, 2017. Final abandonment activities were initiated on October 25, 2017. The well abandonment report does not indicate if the flowline/pipeline associated with the well was abandoned per COGCC Rule 1103. A cast iron bridge plug (CIBP) with a cement cap was placed above perforations in the well casing. This cap was intended to isolate the perforations and prevent flow up the well from this



Terracon Consultants, Inc. 1242 Bramwood Place Longmont, Colorado 80501 P [303] 776 3921 F [303] 776 4041 terracon.com

Well Site Background Evaluation

Longmont 8-10K ■ Longmont, Colorado January 22, 2018 ■ Terracon Project No. 22177046



area of the formation. Cement plugs were placed above the surface casing shoe and near the surface, to prevent any fluids moving to the surface. There is no indication if the production casing was pulled based on the Well Abandonment Report (COGCC Document No. 401411121).

During November 2017, the COGCC performed a Field Inspection/Reclamation Inspection to document the status of well abandonment activities and final reclamation of the Longmont 8-10K well location. This inspection report indicates that final reclamation activities have been satisfactorily completed as of October 31, 2017, and TOP was in the process of getting equipment off the location.

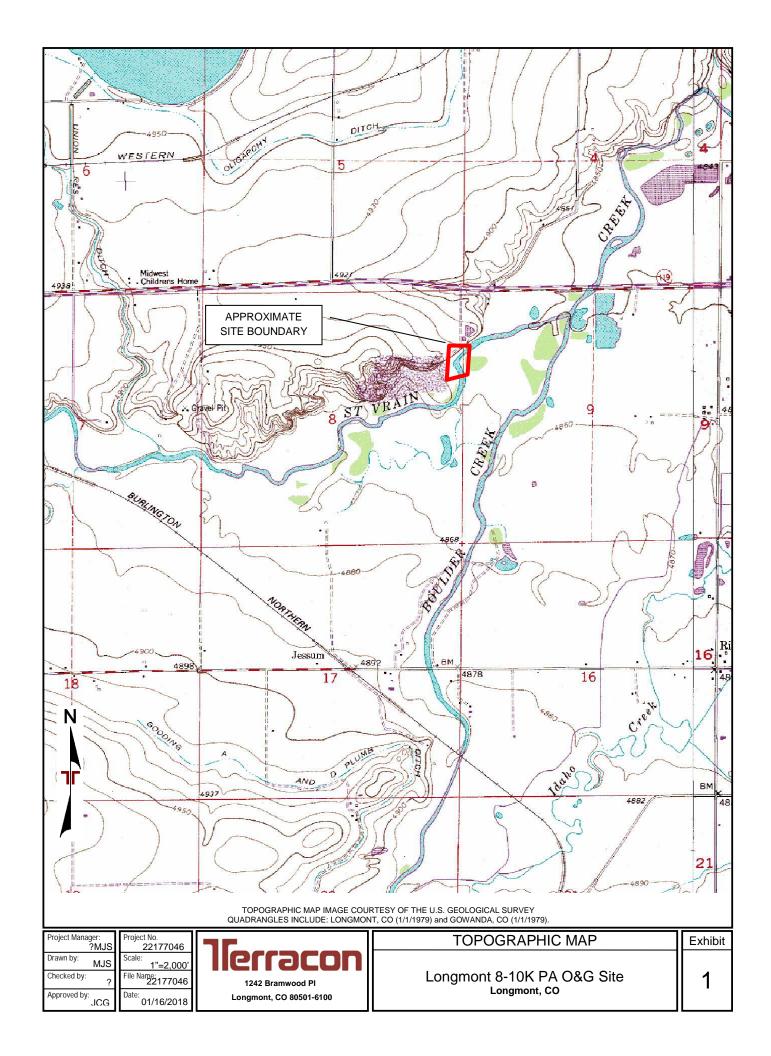
The land use of the well site during PA activities was undeveloped. The current land use of the well site remains undeveloped but there is commercial development approximately 2,500 feet to the north and 1,500 feet to the southwest.

The closest registered well (MH 37218 – City of Longmont) is approximately 1,200 feet northwest of the Longmont 8-10K wellhead location and is reported to be 12.3 feet deep.

The Longmont 8-10K well site was formally part of the City of Longmont's Annual Groundwater Quality Monitoring Project of active O&G wells. Terracon installed three groundwater monitoring wells at the site as part of this program in 2013 (Terracon Project No. 25127127). Due to the 500-year flood event occurred in November of 2014, the groundwater at the site dropped in elevation due to changes in lithology and riparian flow in the region. Since this time, annual measurements of the monitoring wells have observed the monitoring wells to be dry.

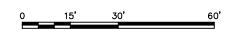
The City of Longmont is currently expanding the scope of work from the 2012 project to include assessing the condition of soil, groundwater, and soil gas at select locations. After PA activities at the site had been completed, Terracon installed three replacement monitoring wells, and two addition soil vapor points to reestablish sampling points for collection of groundwater and soil vapor for long-term quality monitoring.

FIGURES





*Oil & Gas Site Features Have Been Removed Form Property



ı	Project Mngr:	MJS	Project No. 22177046			
ı	Drawn By:	CPD	Scale: AS-SHOWN			
ı	Checked By:	MJS	File No. 22177046.DWG			
ı	Approved By:	DAR	Date: 01 10 2019	124		

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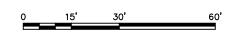
LONGMONT 8-10K CITY OF LONGMONT LONGMONT, COLORADO

SITE DIAGRAM

EXHIBIT No



*Oil & Gas Site Features Have Been Removed From Property



Project Mngr:	MJS	Project No. 22177046	76
Drawn By:	CPD	Scale: AS-SHOWN	
Checked By:	MJS	File No. 22177046.DWG	Consulting
Approved By:	DAB	Date: 01.10.2018	1242 BRAMWOOD PLA PH. (303) 776-3921

POTENTIOMETRIC SURFACE MAP

EXHIBIT No

SUPPORTING DOCUMENTATION

Receptor Worksheet Longmont 8-10K Oil and Gas Well

Lease:	Attached
Well Number:	8-10K
API Number:	05-123-18510
Operator	Top Operating Company

Sensitive Receptor Detail

Receptor	Distance	Gradient ²	Direction	Type of Receptor	Comments
Surface Water Body:	400 feet	Cross-Gradient	South	Creek	St. Vrain Creek
Surface Water Body:	200 feet	Down-Gradient	East	Pond/Lake	St Vrain Creek Pond
Structure:	0.45 mile	Up-Gradient	North	Teton Waters Ranch	3301 Lawrence St #3, Longmont, CO
Structure:	0.48 mile	Up-Gradient	North	Roof Check Inc	1610 Skyway Dr Longmont, CO
Structure:	0.55 mile	Up-Gradient	Northeast	Police Dept	Shooting Range
Structure:	0.58 mile	Cross-Gradient	South	Residential	Homes
Water Well ¹ :	0.22 mile	Cross-Gradient	Northwest	Observation Well (1999)	MH-37218

- 1) Water well information obtained from the Colorado Department of Water Resources online database.
- 2) Site specific gradient determined from Terracon's Limited Soil, Groundwater, and Soil Gas Investigation (December 2017).

^{*} Additional site and receptor information obtained from Colorado Oil and Gas Conservation Commission (COGCC) online database.



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AR3970874

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TRACTS A, B, C

between [gamald W. Baldridge and Adale A Baldridge, his wife 5025 E. Platte, Colorado Springs, Colorado 80916

Calvin Patroloum Corporation, 145 First St., Fort Lupton, CO 80621 hereineller called bearer, does without

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_____, and described as follows:

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AUG 5 - 1994

Sing EXHIBIT "A" attached hereto and made a part hereof
Sing EXHIBIT "B" attached hereto and made a part hereof for additional provision COLO. OIL & GAS CONS. COMM.

B 1033 REC 01970874 06/18/84 14:33 \$12.00 1/004 F 2291 MARY ANN FEVERSTEIN CLERK & RECORDER WELD CO, CO

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B 1033 REC 01970874 06/18/84 14:33 \$12.00 3/004 P 2293 MARY ANN PEUERSTEIN CLERK & RECORDER WELD CO, CO

Attached to and made a part hereof that certain oil and gas lease by and between DOUALD W. BALORIDSE and ADELE A. BALDRIDSE, his wife as Lessors and CALVIN PETROLEUM CORPORATION, as Lessoe dated April 3, 1984.

DESCRIPTION:

RECEIVED

AUG 5 - 1994

COLO. OIL & GAS CONS. COMM.

A tract of land located in parts of the S4 of Section 5, and the M3 of Section 8, Township 2 North, Dange 60 West. of the 6th P.H., said tract being more particularly described as follows: BEGITHING at a point on the East line of said Section 8 from whence Northeast corner of said Section 8 hears N 00° 00' 00" E., 31.50 feet and with all other bearings contained herein relative thereto; thence S., 00° 00' 00" E 1143.32 feet along said East line of Section 8; thence S 53° 10' 00" W 213.37 feet; thence 86° 40' 19" W 1136.31 feet. along an existing feaceline; thence N 00° 00' 00" E, 1390.93 feet to a point on the approximate South right of way line of Colorado State Highway 119; thence along a line lying approximately 0.5 feet South of and parallel to the South right of way fence of said Colorado State Highway 119, the following courses and distances: 308.63 feet along the arc of a curve to the right, Said are being subtended by a chord bearing S 85° 09' 55" E, 388.34 feet; thence S 81° 19' 04" E, 366.26 feet; thence 5 82° 27' 57" E, 230.24 feat to the POINT Of CURVE of a curve to the left; thence 338.53 feet along the arc of said curve, said arc being subtended by a chord bearing S 84° 04' 45" E, 338.72 feet to the POINT OF BECUNNIC.

STATED FOR IDENTIFICATION

Consta W. Baldulge

the second

P 2294 MARY ANN PEUERSTEIN CLERK & RECORDER WELD CO, CO

EXHIBIT "B"

Exhibit B to Off and Gas Lease

Date: April 3, 1964
Lescors: Donald M. Baldridge and
Adele A. Baldridge

-Lassee: Calvin Petroleum Corporation

RECEIVED

The foregoing oil and gas lease is hereby made expressly subject to the AUG 5 - 1994 following terms, conditions and agreements which shall govern in the event there is any conflict between the terms contained on this Exhibit B and the printed provisions of the oil and gas lease. COLO. OIL & GAS CONS. COMM.

- 1. <u>Ron-development lease</u>. This is a non-development lease and the parties expressly uncerstand and agree that no activities of any sort shall be conducted on the lease premises nor shall any portion of the leased premises be used for any purpose, without the prior written consent of the Lessors and it is expressly understood and agreed that the Lessors may withhold that consent with or without reason or explanation and entirely at the Lessors'sole and uncontrolled discretion.
- Royalties. Mhonever a royalty to the Lessors is provided for in this lease, specifically in paragraphs three and four of the printed portion of this Lease, the royalty shall be 16.87%.

PRIL 23 1934

State of Colorado, Weld County Clerk & Recorder

See attached addendum:

BL 2 TRACT

Form An (Producers)
Kan, Okla, & Colo. 1957

C Sev. 1974 OH. AND GAS LEASE

this agreement, Entered into this the 7th day of February

C.P. Richardson, Leo F. Knago, and Betty Jo Secor

P.O. Box 717,

Longmont, CO 80501

Buddy Baker, 1429 Larimer, Denyer, CO 30202 her matter called leave (does witness)

1. That is sure, for and in consuleration of the sum of T2N and no/100 = Dullars in hand paid and of the convenants and agreements hereinafter contained to be performed by the leave, has this day granted, leaved, and let and by these presents does hereon grant, leave, and let exclusing part of the lands covered thereby as hereinafter provided, for the purpose of carrying on geological, zerophysical and other explorating work, including cover distinct, mining, and operating for, producing, and saving all of the oil, gas, caunched as, caunched sevolute the difference of the lands of the contraction of the contractio

> TOWNSHIP 2North-RANGE 68West Sections 5 and 8: Described as follows:

The West 43 acres of that tract of land described and recorded in book 677 as reception No. 1599433, and being located in parts of Sections 5 and 8, T. 2 N., R. 60 W. of the 6th P.M., and being more particularly described as follows: Beginning at a point on the East line of the Northeast quarter of said Section 8 from CO which the Northeast corner of said Section 8 bears North a distance of 31.5 feet; thence continuing along said East line, South a distance of 1143.82 feet; all bearings used herein being relative thereto; thence South 58010. West a distance of 251.7 feet to a point on the South line of the North h of the North h of said Scotion 8; thence along said South line North 88° 38! West a distance of 2469.31 feet; thence North 01° 22' East a distance of 1347.06 feet to a point on the South line of State Highway No. 119; thence along the said South line of said highway by the 5 following courses and distances; North 87054'40" East, 487.75 fact; along the arc of a curve to the right the chord of which bears South 88042' East 212.79 feet more or less to the point of beginning, subject to any existing easements or rights of way, together with each and every right and access to the premises from Colorado Highway 119 as granted by the State Highway Department as recorded in the records of Wald County.

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AUG 5 - 1994

COLO. OIL & GAS CONS. COMM.

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COLO. OIL & GAS CONS. COMM.

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2. It is agreed that this lease shall remain in full force for a term of FIVE (5) sears from this date and as long the failer as on or gas, or either of them, is produced from and fail tor from fails with which add land is consolidated) or the premises an original consequence of the premises the said lesser covenants and agrees.

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To deliver to the credit of lessor, free of cost, in the pipe line to which lesser may connect his wells, the epide of exact (1/8) part of all of produced and savell from the leased premises.

4. The lesses shall monthly pay lessor as royally on gas marketed from each well where as only is found, one each (1/8) of the proceeds received by lesser of the leased premises, then one eighth (1/8), of the proceeds received by the lesser from the who of costinhead gas, produced from any oil well, the lease of the leaser from the who of costinhead gas, produced from any oil well, the leaser of the leaser from the who of the well, computed at the providing market price, of the cassighead gas, produced from any oil well, the incomment of Arolline value, at the mouth of the well, computed at the prevailing market price, of the cassighead gas, produced from any oil well and well in leaser off the leaser of the l

19.81 , this lease shall terminate as to both parties, unless the leaser shall on or before and date pay or tender to the usual or for the leaser's credit in the First National Bank at Longmont CO 80501 in the concession, which hank and its successors are the lesser's agent and shall continue as the depository of any and all sums passable under this less department of the persons in

CF Richardson C.P.Richardson SS4 524. /6. 6858 Lea F. Knaga 354 52622 0481 Betty Jo Secor 33# 512 98.7-11

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ADDENDUM

COLO. OIL & GAS CONS. COM This addendum attached to and made a part of that certain Oil and Gas lease dated February 7, 1980 by and between C.P. Richardson, Leo F. Knago and Betty Jo Secor, lessors, and Buddy Baker, lessee, covering the following described lands:

The West 43 acres of that tract of land described and recorded in book 677 as reception No. 1599433, and being located in parts of Sections 5 and 8, T. 2 N., R. 68 W. of the 6th P.M., and being more particularly described as follows: Beginning at a point on the East line of the Northeast quarter of said Section 8 from which the Northeast corner of said Section 8 bears North a distance of 31.5 feet; thence continuing along said East line, South a distance of 1143.82 feet; all bearings used herein being relative thereto; thence South 58010' West a distance of 251.7 feet to a point on the South line of the North & of the North & of Said Section 8; thence along said South line North 88° 38' West a distance of 2469.31 feet; thence North 01° 22' East a distance of 1347.06 feet to a point on the South line of State Highway No. 119; thence along the said South line of said highway by the 5 following courses and distances; North 87054'40" East, 487.75 feet; along the arc of a curve to the right the chord of which bears South 88042' East 212.79 feet more or loss to the point of beginning, subject to any existing easements or rights of way, together with each and every right and access to the premises from Colorado Highway 119 as granted by the State Highway Department as recorded in the records of Wold County.

- It is hereby agreed that lessee or its assigns will be prohibited from proposing a drill site on subject lands.
- 2. It is hereby agreed that lessor or its assigns shall grant lessee or its assigns the right of ingress or egress on subject lands.

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EXHIBIT "A"

AUG 5 - 1994

Attached to and made a part of that certain Correction of Description in Lease dated May 8, 1984.

COLO. OIL & GAS CONS. COMM.

TOWNSHIP 2 North - Range 68 West Sections 5 and d: Described as follows:

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The Weat 43 acres of that tract of land described and recorded in Book 677 at Reception No. 1599433, and being located in parts of Sections 5 and 3. Township 2 North, Range 63 West of the 6th P.M., and being more particularly described as follows: Beginning at a point on the East line of the Northeast quarter of said Section 8 from which the Northeast corner of said Section 8 bears North a distance of 31.5 feet; thence continuing along said East line, South a distance of 1143.82 feet; all bearings used herein being relative thereto; thence South 58° 10' West a distance of 251.7 feet to a point on the South line of the North 1/2 of the North 1/2 of said Section 8; thence along said South line North 58° 38' West a distance of 2469.31 feet; thence North 01° 122' East a distance of 1347.06 feet to a point on the South line of State Highway No. 119; thence along the said South line of said highway by the 5 following courses and distances; North 87° 54' 40" East, 487.75 feet; along the arc of a curve to the right the cord of which bears South 88° 42' East 212.79 feet more or less to the point of beginning, subject to any existing easements or rights of way, together with each and every right and access to the premises from Colorado Highway 119 as granted by the State Highway Bepartment as recorded in the records of Weld County.

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EXHIBIT "B"

AUG 5 - 1994

Attached to and made a part of that certain Correction of COLO. Oll & GAS COMS. COMM.

Description in Lease dated May 8, 1984

TOWNSHIP 2 North - Range 68 West

Sections 5 and 6: Described as follows:

The West 43 acres of the following described tract of land: That part of the North 1/2 of the Northeast 1/4 of Section 8, and that part of the South 1/2 of the Southeast 1/4 of Section 5, all in Township 2 North, Range 63 West of the 6th P.M., Weld County, Colorade, being more particularly described as follows: Beginning at a point on the East line of the Northeast 1/4 of said Section 8 from which the Northeast corner of said Section 8 bears North, a distance of 31.5 feet; thence continuing along said East line, South a distance of 1143.82 feet; all bearings used herein being relative thereto; thence South 58 degrees 10' West a distance of 251.7 feet to a point on the South line of the North 1/2 of said Section 8; thence along said South line North 88 degrees 38' West a distance of 2469.31 feet; thence North 01 degrees 22' East a distance of 1347.00 feet to a point on the South line of State Highway No. 119; thence along the said South line of said highway by the five (5) following courses and distances:

North 87 degrees 54' 40" East, 847.75 feet; thence along the arc of a curve to the right the cord of which bears South 88 degrees 03' East, 792.58 feet;

South 81 degrees 47' East, 749.48 feet;

South 83 degrees 47' East, 57.7 feet;

South 88 degrees 42' East, 212.79 feet more or less to the POINT OF DEGINNING

ARIMSIMS

B 1043 REC 01981353 09/17/84 16:43 \$3.00 1/00 P 1827 MARY ANN PEUERSTEIN CLERK & RECORDER WELD CO. C.

AMENDMENT TO OIL AND GAS LEASE

RECEIVED

AUG 5 - 1994

Whereas C. P. Richardson, Leo F. Knago, and Betty Jo SecorCOLO. Oll & GAS CONS. COMM. entered into an Oil and Gas Lease with Buddy Baker as Lesseo, dated February 7, 1980, recorded May 29, 1980, in Book 904, at Reception Number 1826005, covering lands in the N5 of Section 8 and the S5 of Section 5. Township 2 North, Range 68 West, of the 6th P.M., Weld County, Colorado,

and wheras C. P. Richardson is now the sole owner of the leased lands,

and whereas the subject Cil and Gas Lease contained the following provision in its Addendum, "1. It is hereby agreed that the lessee or its assigns will be prohibited from proposing a drill site on subject lands."

and whereas C. P. Richardson is desirous of amending said Oil and Gas Lease to allow for drilling on the subject lands.

Now, therefore, C. P. Richardson does hereby amend the terms of said Oil and Gas Lease and does delete Paragraph 1 of the Addendum to subject Oil and Gas Lease, and does further amend said Oil and Gas Lease to allow for drilling activities on the subject lends.

IN WITNESS WHEREOF, we sign this 31st day of August, 1984

* C. P. Richards

STATE UP COLORAGO

ACKNOWLEDGMENT — INDIVIDUAL

BEFORE Mil, the undersigned, a Notary Public in and for said County and State, on the 318 t.

day of August 19.84 personally appraved C. P. Richardson

STATE UP COLORAGO

AUGUST 19.84 personally appraved C. P. Richardson

STATE UP COLORAGO

STATE UP COLORAGO

ACKNOWLEDGMENT — INDIVIDUAL

IO DE KNOWN to be the identical person. Aexended in med who executed for yithing and foreyoning instruction of writing and acknowledged to me that the duly assented the same as 11.8 investigation of first first for first dered for the sees and purposes therein are forth.

STATE UP COLORAGO

ACKNOWLEDGMENT — INDIVIDUAL

IO DE KNOWN to be identificated person. Aexended in med who executed for yithing and forthe same as 11.8 investigated for first dered for the sees and purposes therein are forth.

STATE UP COLORAGO

ACKNOWLEDGMENT — INDIVIDUAL

ACKNOWLEDGMENT — INDIVI

B 10.. REC 01981954 09/17/84 16:43 00.00 1/002 F 1828 MARY ANN PEUERSTEIN CLERK & RECORDER WELD CO, CO

WHEREAS, we the undersigned, as lessors, did under date of	19.80
make and execute cate. Buddy Baker	aa leeco.
our certain oil and gas leave, covering certain lands owned by us, situated in Meld	County
Colorado State, and described in said lease as follows, to-wit:	RECEIVED
FOR DESCRIPTION SEZ PARAGRAPH "A" OF EXHIBIT "A" ATTACHED HERETO AND HEREOF	MADE A PAAUG 5 - 1994
	COLO. OIL & GAS CONS. COMM
	i i i i i i i i i i i i i i i i i i i
1317 MILLION AND AND AND AND AND AND AND AND AND AN	To be seemed
AND WHEREAH, said description is incomplete and indefinite, and the lands intended by said lease are more accurately described as follows, to-wit:	to be covered
a) and lette and ment according according on passent as a second	
FOR DESCRIPTION SEE PARAGRAPH "D" OF EXHIBIT "A" ATTACHED HERETO AND HEREOF	KADE A PART
	*
Sc.	50
in sald County and State:	
NAME OF THE PROPERTY OF THE PARTY OF THE PAR	, , , , , , , , , , , , , , , , , , ,
NOW, THEREFORE, in consideration of the premises, and for the purpose of making more definite and certain in respect to the identity of the lands intended to be covered the	
hereby declars that it was and is our intention to lesse for oil and gas purposes the identical	The state of the s
inst above described; and we hereby amend said leans in respect to the description of the l	
thermin, as aforesaid, and ratify and adopt the same as so amended.	
WITNESS our hands and seals this 31st day of August	A. D. 19 84 .
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	
(ABB' A).	
X & P Richardson	L (Boal)
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in 1914 to 1914 the second	(DOSA)
STATE OFColorado ACKNOWLEDG	MENT
COUNTY OF Boulder 1, Sport B. Figher, a	
Notary Public in and for said On	unty, in the
Histo sforceald, DO HEREBY CERTIFY That C. P. Richardson	
THE PARTIES AND SEPTEMBER WEST SERVICES AND SEPTEMBER SEPTEMBER SERVICES AND SEPTEMBER SEPTEM	
perceptilly known to me to be the same person whose name_14	
midwelled to the foregoing instrument, appeared before me this day in person, and ac	
hist migned, sealed and delivered the said lustrument as	free
of multipliery act, for the uses and purposes therein set forth.	·
111724 Under my hand and Alliand my notatial	seal, this
17 consisson expires September 2, 1756 Just By Just Black	
17 consissor expires september 1100 - 1000 - 2/2	chant 1 stars
Aurora, co 90012	to an in him made that
Hurora, 20 80012	•

D 1043 REC 01931954 09/17/94 16:43 \$6.00 2/002 F 1829 MARY ANN FEUERSTEIN CLERK & RECORDER WELD CO, CO

EXHIBIT "A" attached to and made a part of that certain Correction of Description In Loane, dated August 31, 1984 by and between C.P. Richardson, an Lossor, and Buddy Baker, as Lesson.

Paragraph "A"

Township 7 North, Names 63 Most, 6th P.M.

A partial of Sections 3 and 8 being more particularly described as follows:
Beginning at a point on the East line of the Northeast Quarter of said Section 8
from which the Northeast corner of said Section 8 bears North a distance of 31.5
feet;
Thence continuing along said East line, South a distance of 1143.82 feet; all
bearings used herein being relative thereto;
Thence South 58 10 00 meet a distance of 251.7 feet to a point on the South line
of the North 1/2 of the North 1/2 of gaid Section 8;
Thence along said South line North 88 38 00 meet a distance of 2469.31 feet;
Thence North 01 22 00 East a distance of 1347.06 feet to a point on the South 1.0 of State Highway No. 119;
Thence along the said South line of said Highway No. 119 by the 5 following
courses and distances; North 87 54 40 East, 487.75 feet; along the arc of a
curve to the right the chord of which bears South 88 42 East 212.79 feet more
or less to the point of beginning.

Sec. 19

Paragraph "B"

Township 2 North, Range 68 West, 6th P.M. That part of the N/2 of the NE/4 of Section 8, and that part of the S/2 of the SE/4 of Section 5 being more particularly described as follows: Reginning at a point on the East line of the NE/4 of said Section 8 from which the Northeast corner of said Section 8 bears North, a distance of 31.5 feet; Thence continuing along said East line, South a distance of 1143.82 feet; all bearings used herein being relative thereto; Thomas South 58 10'60" West a distance of 251.7 feet to a point on the South line of the N/2 of the N/2 of said Section 8; Thence along said South line North 88 38 CO" West a distance of 2469.31 feet; Thence North 01°22'00" East a distance of 1347.06 feet to a point on the South line of State Highway No. 119; Thence along the said South line of said State Highway No. 119 by the five following courses and distance:
North 87 54*40" East, 847.75 [cet; along the arc of a curve to the right, the chord of which bears South 88 03*00" East, 792.58 [cet; South 81 47*00" East, 749.48 feet; South 83 47'00" East, 57.7 feet; South 88 42 60" East, 212.79 feet more or less to the Point of Reginning.

Signed for Identifications

C.P. Richardson

i Maria	We Recorded et 800 c'clock & Jai 21 Rec. Ha 1314755 May an Ferrenter			
a Sala	Sicre of Coloracts, Weld Fourty Clerk & Recorder	~./ :		1 1
	EXHIBIT A Form and Originates C. no. 1974 (MI ANI) CAS I DASE			
	THIS AGREEMENT, Entered into this ine _ 2			
1	The City of Longmont, Longmont Colorado 80501			
i	nermatics edictions. and Suddy Baker, 1429 Larimer Street, Denver, Colorado 80202			
ئ	1. That lesser, for and in consideration of the noni of Ten and Miles of bullets in head paid and of the convenies and agreements because the beginning by the lesser, and that attained, leased, and let and by these previous dires needly again, lease, and they are the previous dires needly again, lease, and they are the previous of the lease of the lease and they are the previous of the lease and covered thereby as hereinteder proceedly. For the purpose of carrier, decomposed and other explorations work, including core difficient and the drilling, maints, and operating for, producing, and several first proceeding and the accomposition of the lease and their explorations are all other explorations therefore constituent regions, and for constructing reads, taking tipes they building tanks, stimms to building tower stations, telephone lines and other structures thereon accessary or consequent for the economical operation of said lend aims or required with neighboring limits, in produce, save, take care of, and manufacture all in one substances, and line housing and boarding employees, and tract of land with any executions takes therein heing situated in the County of the lease of the land with the County of the land of the lan			
0	Sure of Colorado RECEN	/ED		
11/3	Township 2 North Range 68 West Section 8: SW/4 NE/4, NW/4 SE/4 AUG 5 -	199	4	
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	prenties by making not occupance to therefor. Where gas form a well in wells, explude all producing gas into , is not sold of used for a period of one year, letter shall pay or femier as not ally, an amount equal to the delay rended as provided in paragraph (5) netrol, payable annually on the anniversary date of this lease following the rend of each work your definitions which used gas a not said or used, and while said rot ally his so paid or tendered this lease shall be held as a producing property univergant numbered two hereins.			
	11 uperations for the distinct of a well for not or as are not commenced on said land on ne before the 23 day of NOY. 19 81 this leave shall terminate as to both forties, unless the leaver shall on or before said date pay or tender in the leaves or for the leaves's credit in.			,
	the First National Bank at Longmont, Colocado at its succession, each hank and its successors are the leaver's agent and shall continue of the depositors of any and all some persons under this leave regardless of range of the mention and land or in the reliable service becomes the common of Eighty and no/100 Unlies, which shall injuriate a sortial and enter the provider of deferring the commencement of operations for defining for a period of the periods to commence the injurial service and the provider of the commencement of operations for defining the periods successively. All payments of control of operations for defining the periods successively. All payments of control of the periods successively.			K
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	8. The bester shall have the nont to use, free of cost, as, out took safer found to used sould be set operations between, every safer from the service, then revisited by the forest, the revise shall have to be not sould be used to design extends the cost of costs on said land. No well shall be defined measure than 200 feet to the house or both now on said premises without settlen consent of the fewor. Leaves that have the right of an an time during, or after the experience of, this cost is primise all or afficients, between subdivines and other strongers and the strongers, including the either to the a said remove all casing, leaves extress, such the completion of any tests as a dry hole of use of the elements of any producting well, to retrieve the premises to their original continues as near as practical and to remove all initialisations within a resonable time. 9. If the relate of either rights beet use as used family the relation of the elements of the elements.			The state of
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JITLEST Suite E Suite Con July 24 Director of Finance

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STATE OF Chiabona, Kamen, New Merika, Wysoning, Montana, Co COUNTY OF Sa. COUNTY OF NOT UPD OF ACKNOWLEDGMENT - INDIVIDUAL	DECE	AFFER
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	COLO. OIL & GAS	CONS CUMM.
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the within and foregoing instrument of writing and acknowledged to me that	r u	U. SER
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STATE OF COUNTY	eride, ULES,	
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the within and foregoing instrument of writing and acknowledged to me that	: A4	
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	Notary Public.	
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County of . Boulder		
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and that the seal allisted to said instrument is the corpor		
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acknowledged said instrument to be the free act and deed of said	d corporations	
Witness my hand and seal this 7th day of December	2. Act 10 19 15	
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(SEAL)	Notary Pythia	
My Communes experts. November 13, 1983	******	
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ADDENDUM TO OIL AND GAS LEASE

RECEIVED

of December . 1979, by and between the City of AUG 5 - 1994

Longmont, Colorado, a Municipal Corporation referred to as

Lessor, and Buddy Baker, 1429 Larimer Street, Denver, Colorado,

referred to as Lessee.

MiEREAS, the Lessee has provided unto Lessor a standard form 88 Oil and Gas Lease for certain real property owned by Lessor in the County of Weld, State of Colorado, containing eighty (80) acres, more or less, said Oil and Gas Lease more specifically described as Township 2 North Range 68 West, Section 8: SW/4 NE/4, NW/4 SE/4, said Oil and Gas Lease being hereto attached and fully made part herein as Exhibit A; and

WHEREAS, the said property of the City of Longmont constitutes an operational portion of the Lessor's Solid Waste Landfill territories; and

WHEREAS, the Lessor is willing to execute the said attached Lease upon the additional specifications herein contained restricting and prohibiting Lessee from conducting drilling, construction or other physical utilization of the surface of the said leased property without the written consent of the Lessor as to the aforesaid activity of Lessee, along with the location and placement of any surface equipment or installation, or otherwise merely submitting the same to be used by Lessee in its unitization of the said leased land in conjunction with other surrounding territories upon which Lessee may have a leasehold or other proprietary interest not owned by the City thereby appropriating the subsurface oil and gas resources.

NOW, THEREFORE, it is Agreed as follows:

 Except as may be specifically inconsistent with the terms of this Addendum, the Oil and Gas Lease hereto attached

44

as Exhibit A shall become the agreement between the said parties.

- 2. That the Lessee shall be prohibited from drilling, RECEIVED making construction or otherwise interfering with the surface of the afore described leased territories unless such activity AUG 5 1994 and designation of placement upon the above described leaged. OIL & GAS CONSCOMM. territory is first approved and specified in writing by the Lessor.
- 3. That the Lessee otherwise be permitted to include the underground oil and gas resources in its unitization with other territories as hereinabove contemplated in such fashion as to not interfere with the surface requirements of the Lessor of the said territory owned by Lessor and that the Lessor be compensated the royalty and enjoy the other benefits attributable to the said territory and production of oil and gas attributable to the said territory of Lessor.

CITY OF LONGMONT, COLORADO a Municipal Corporation

LESSEE

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AS L	EASE						

Form An- (Producers) C *** 1974 OIL AND G Kan., Okla. & Colo., 1955 November 1979 The City of Longmont, a Municipal corporation Buddy Baker, 1429 Latimer Street, Denver, Colorado 80202 percenter called level does willow create therein being situated in the County of _____ NG14

Township 2 North, Range 63 West of the 6th P.M.

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State of ___Colorado______ follows

Section 8: Et SEt, SEt NEt, and that portion of SEt NEt NEt lying South and East of Right-of-Way granted in Instrument recorded in Book 669, Reception No. RECEIVED

AUG 5 = 1994

2. It is selved that this have shall remain in full turer for a term of Five reas from this date, and as lone COLOG All to the fact of the first of

19 30 , this lease shall becomes as to both parties, unless the lesser that un or before sold data yas or the less of the lesser to the lesser's result in

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OUNTY OF	COLO. OIL & GAS CONE	MOS
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within and foregoing lastrument of writing and acknowledged to me thatduly executed the same	as her	• • •
d voluntary act and deed for the uses and purposes therein set forth.		3.
IN WITNESS WHEREOF. I have heremate set my hand and affixed my activated seal the day and year b	at above written.	
у Сопаньнов Ехритех	Notary Pablac.	1
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***	No. 14	2.00
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AUG 5 - 1994

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ADDENDUM TO OIL AND GAS LEASE

THIS ADDENDUM is made and entered into this 4th day of December , 1979, by and between the City of Longmont, Colorado, a Municipal Corporation referred to as Lessor, and Buddy Baker, 1429 Larimer Street, Denver, Colorado, referred to as Lessee

WHEREAS, the Lessee has provided unto Lessor a standard form 88 Oil and Gas Lease for certain real property owned by Lessor in the County of Weld, State of Colorado, containing One hundred twenty-one (121) acres, more or less, said Oil and Gas Lease more specifically described as Township 2 North, Range 68 West, Section 8: Et SEt, SEt NEt, and that portion of SEt NEt Net lying South and East of Right-of-Way granted to Instrument recorded in Book 669, Reception No. 1591488, said Oil and Gas Lease being hereto attached and fully made part herein as Exhibit A: and

WHEREAS, the said property of the City of Longmont constitutes an operational portion of the Lessor's Solid Waste Landfill territories; and

WHEREAS, the Lessor is willing to execute the said attached Lease upon the additional specifications herein contained restricting and prohibiting Lessee from conducting drilling, construction or other physical utilization of the surface of the said leased property without the written consent of the Lessor as to the aforesaid activity of Lessee, along with the location and placement of any surface equipment or installation, or otherwise merely submitting the same to be used by Lessee in its unitization of the said leased land in conjunction with other surrounding territories upon which Lessee may have a leasehold or other proprietary interest not owned by the City thereby appropriating the subsurface oil and gas resources.

NOW, THEREFORE, it is Agreed as follows:

 Except as may be specifically inconsistent with the terms of this Addendum, the Oil and Gas Lease hereto attached COLO. DIE & GAS EONS. COMM.

1014784 _{4.4}

RECEIVED

AUG 5 - 1994

as Exhibit A shall become the agreement between the said parties.

COLO. OIL & GAS CONS COMM

- 2. That the Lessee shall be prohibited from drilling, making construction or otherwise interfering with the surface of the afore described leased territories unless such activity and designation of placement upon the above described leased territory is first approved and specified in writing by the Lessor.
- 3. That the Lessee otherwise be permitted to include the underground oil and gas resources in its unitization with other territories as hereinabove contemplated in such fashion as to not interfere with the surface requirements of the Lessor of the said territory owned by Lessor and that the Lessor be compensated the royalty and enjoy the other benefits attributable to the said territory and production of oil and gas attributable to the said territory of Lessor.

CITY OF LONGMONT, COLORADO a Municipal Corporation

LESSEE

By Bull Sola

X en., Okla, & Culo, 1957 AGREEMENT, Entered into the the 26th
Malba Grace Distal, a widow THIS AGREEMENT, Entered into the the 1443 Wald County Road 20+ Longmont, Colorado

and Buddy Baker, 1429 Larimer St, Denver, Colorado 30202 perematies culted have, does without AUG 55 1994 j 1. That leaver, for and in consideration of the sum of Ton 2 month of the sum of Ton 2 month of the sum of Ton 3 month of the sum of Ton 4 month of the sum of the sum of Ton 5 month of the sum of t rights therein being neuered in the County of _____ Nold_ sured Colorada and described as follows 0 Township 2 North Range 63 West Section 8: SELSW: SWISE: Section 17: NWINE: NEINWI, EISEINWI EXCEPT parcels described in book 57 837 page 536 & book 1233 page 513 2. It is served that this leave shall remain in full force for a term of Fivo (5) rear from this dake, and at long thereafter as our or gas, or estime of there, is produced from said land (or from lands with which said land is consudiated, or the premises are being developed or operated.

3. In considerable of the premises that said lense correct said the server of the extent of the premises are being developed or operated.

4. The lessors shall monthly pay lessor as royalty on gas marketed from each well whose shall not the leaved premises.

4. The lessors shall monthly pay lessor as royalty on gas marketed from each well whose the well, the remaining (1/8) of the proceeds it shall not the premises at the well, or if marketed by lessors off the leaver from the said of case-ignin (1/8) of the market value at the well, the lessors shall not the premises at the well, or if marketed by lessor off the leaver from the said of case-ignin (1/8) of the market value at the well, the lessors shall pay the leaver (s) unresignin (1/8), of the proceeds received by the leaver from the said of case-ignin (1/8) of the market value at the well, the lessors shall pay the leaver (s) unresignin (1/8), of the proceeds received by the leaver from the said of case-ignin (1/8) of the market value at the well, the lessors shall be a prevained for any purpose of the well, computed at the premises for any purpose of well of the proceeds are expensed of wind gas from any full well on the leaver of the case-ignin (1/8) of the well, computed at the premises for any purpose of wind gas from any full well on the leaver of the case-ignin (1/8) of the well, computed at the premises for any purpose of wind gas from any full well of its sort and any of the proceeds of the premises for any purpose of wind gas from any full well on the force of the premises for any purpose of wind gas from any full well on the force of the premises for any purpose of wind gas from any full well on the force of the premises of the premises of the premises of the pre TECOMO DO VELLENCE one writted no no best best on bronominuo sun ess se julio not the continue of rest encigation !! to 100-residence for the first of the formation and the formation and the formation and the formation of the formation and the formation of th the FICE ACCOUNTS AND Immediate to noise persons, which the latter man of persons and disc, by a sense to the freeze of the beam's credit in the FICE ACCOUNTS. And and the Language of the latter than the persons are for the beam's credit in the field and gas or in the realist to account hereunder, the sum of CON BURGEON ACCOUNTS AND INTEREST AND INTEREST. AND INTEREST AND INTEREST. AND INTEREST AND INTEREST AND INTEREST AND INTEREST AND INTEREST AND INTEREST. AND INTEREST AND INTEREST AND INTEREST AND INTEREST AND INTEREST. AND INTEREST AND INTEREST AND INTEREST AND INTEREST. AND INTEREST AND INTEREST AND INTEREST. AND INTEREST AND INTEREST AND INTEREST. AND INTEREST AND INTEREST AND INTEREST. AND INTEREST AND INTEREST A provided. And it is agreed that upon the resumption of the payment of rentum, as source provided, that the late prevents paragraph develop comming target payment of rentum and the effect thereof shall costinue in force just as though there and been on interruption in the metal payment.

7. If said lexico owns a less interest in the above described hand than the entires and undivided fee anome seates thereor, then the revealurs and rentals berein provided shall be paid the lewest only in the proportions which his interest bears to the whose and undivided less flowerer, such rental shall be increased as the east succeeding rental annovariant; after any revertions on ecurs to curve heaterst to acquired.

8. The rever shall have the right to use, free of cout, as, oil and water found on said used for its operations thereoe, except water from the wells of the lemot, Whitn required by Jesson, the lesses shall have its pipe lines below pure Geria on the large for damage extend of the lemot. When required by Jesson, the lesses shall have its pipe lines below pure Geria on the large for damage extend of the properties of the course of the course of the course of the course of the lesses. Under the right is any time during, or after the experitions of, this least to remove all machiners, the course of other certains of any producing with it restore the partment of their contracts and interest partners, succeeding, or after the experition of any producing with the territories of their partners to their original contours as near as practicated and to remove all unstablishes within a resonance time.

9. If the crashs of either party forcio is assumed and damage, but no change of watership in the and or is the restule of row related to the heart, derivers, accounting any discounting of any architecture, accounting to the restaud of the lesses of any deceased owner, which are the original record land which it has proceed on the process thereof, or excluded copy of the produced on the process thereof of the rest that original

days from such executing and this base hid remain or force during the prosecution and cach operations and, if Proviscion results therefore, then is hors as production constitues.

13. Letter is literally queo the right at its notion, at any time and from time, to time, to joined we writter all or any part or parts of the source entitled land with other land, level, or tradictions in force at the time of inch probing to be into onto an exceeding the entitled under lows, rules, or tradictions in force at the time of inch probing or unitations provided, however, that such write may exceed nech mindium by not more than be a rerest if one access its necessary in order to conform to one estable publishments of level them. Level what exercise said upition, as to each desured unit, by executing and recording an instrument identifying the unitary date. Any well dished or operations contributed under that free, and there is the final and part of the excellent of any part of each such wait shall be considered and early part of each such wait is highly executions considered under that free, and there is the production of the above described land included its any said unit such proportion of the countered understood that expects in an exercise to the position and part of the first of the first of the result of the first of

IN WITNESS WHEREOF, we ugn the day and year first above written.

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	BEFORE ME, the endersigned, a Notary Public, is and for said County and State, on this 2825		
	day of Deem 1979 personally appeared Malha Grace Distal, a widow	RECEIVED	
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	to me known to be the identical person described in and	real ore or or or or or or or	IIVI
	the within and foregoing instrument of writing and acknowledged to me that SDD, duly executed the same as. It and voluntary act and deed for the uses and purposes therem set forth.	rbee	
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FORM 6 Rev

12/05

State of Colorado Oil and Gas Conservation Commission

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



ET	OE	ES

Document Number:

401411121

Date Received:

09/22/2017

WELL ABANDONMENT REPORT

This form is to be submitted as an Intent to Abandon whenever an abandonment is planned on a borehole. After the abandonment is complete, this form shall again be submitted as a Subsequent Report of the actual work completed. The approved intent shall be valid for six months after the approval date, after that period, a new intent will be required. Attachments required with the Intent to Abandon are wellbore diagrams of the current configuration and the proposed configuration with plugs set.

A Subsequent Report of Abandonment shall indicate the actual work completed. Attachments required with a Subsequent Report are a wellbore diagram showing plugs that were set and casing remaining in the hole, the job summaries from all plugging contractors used, including wireline and cementing (third party verification) and any logs that may have been run during abandonment.

OGCC Operator Number: 39560 Contact Name: Paul Herring TOP OPERATING COMPANY FDBA MURRAY J Name of Operator: Phone: (720) 6631698 Address: 3609 S WADSWORTH BLVD STE 340 Fax: City: **LAKEWOOD** State: Zip: 80235 Email: paul.herring@topoperating.com For "Intent" 24 hour notice required, Name: Helgeland, Gary (970) 216-5749 Email: gary.helgeland@state.co.us **COGCC** contact: API Number 05-123-18510-00 Well Name: LONGMONT Well Number: 8-10K Location: QtrQtr: NWSE 2N Range: 68W Section: Township: Meridian: 6 County: WELD Federal, Indian or State Lease Number: Field Name: WATTENBERG Field Number: 90750 Notice of Intent to Abandon Subsequent Report of Abandonment Only Complete the Following Background Information for Intent to Abandon 40.150489 Longitude: -105.023448 Latitude: GPS Data: Date of Measurement: 04/24/2014 PDOP Reading: 1.2 GPS Instrument Operator's Name: Rod Herring Reason for Abandonment: ▼ Production Sub-economic Dry Mechanical Problems Other Casing to be pulled: Yes ▼ No Estimated Depth: ▼ No Fish in Hole: If yes, explain details below Yes Wellbore has Uncemented Casing leaks: Yes ▼ No If yes, explain details below Details: **Current and Previously Abandoned Zones Formation** Perf. Top Perf. Btm Abandoned Date Method of Isolation Plug Depth CODELL 7381 7398 J SAND 7816 7848 Total: 2 zone(s)

	Casing History							
Casing Type	Size of Hole	Size of Casing	Weight Per Foot	Setting Depth	Sacks Cement	Cement Bot	Cement Top	Status
SURF	12+1/4	8+5/8	24	581	325	581	0	VISU
1ST	7+7/8	4+1/2	11.6	7,952	250	7,952	6,456	CBL
S.C. 1.1				3,611	600	3,611	3,040	CBL
S.C. 1.2				1,320	430	1,320	0	CBL

CIBP #3: Depth with sacks cmt on top. CIPB #4: Depth with sacks cmt on top.	CIBP #3: Depth CIBP #5: Depth Set 10 Set 20 Set 15 Set 25 Set Perforate and so	with with with sks cmt from 3660 ft sks cmt from 631 ft sks cmt from ft sks cmt from 631 ft	sacks cmt on top sacks cmt on top to 7018 ft to 3397 ft to 1300 ft to 531 ft	p. CIPB #4: Depth Plug Type: Plug Type: Plug Type:	CASING CASING CASING	sacks cmt on top. NOTE: Two(2) sacks cement required on all CIBPs. Plug Tagged: Plug Tagged: Plug Tagged:
CIBP #5: Depth	CIBP #5: Depth Set 10 Set 20 Set 15 Set 25 Set Perforate and so Perfo	sks cmt from 7118 ft sks cmt from 3660 ft sks cmt from 631 ft sks cmt from ft sks cmt from 631 ft	sacks cmt on top to 7018 ft to 3397 ft to 1300 ft to 531 ft	Plug Type: Plug Type: Plug Type:	CASING CASING	NOTE: Two(2) sacks cement required on all CIBPs. Plug Tagged: Plug Tagged:
Set 10 sks cmt from 7118 ft. to 7018 ft. Plug Type: CASING Plug Tagged: X Set 20 sks cmt from 3660 ft. to 3397 ft. Plug Type: CASING Plug Tagged: X Set 15 sks cmt from 1470 ft. to 1300 ft. Plug Type: CASING Plug Tagged: X Set 25 sks cmt from 631 ft. to 531 ft. Plug Type: CASING Plug Tagged: X Set 25 sks cmt from 631 ft. to 531 ft. Plug Type: CASING Plug Tagged: X Set sks cmt from ft. to 531 ft. Plug Type: CASING Plug Tagged: X Set sks cmt from ft. to 531 ft. Plug Type: CASING Plug Tagged: X Set sks cmt from ft. to 531 ft. Plug Type: CASING Plug Tagged: X Set sks cmt from ft. to 531 ft. Plug Type: CASING Plug Tagged: X Set sks cmt from ft. to 531 ft. Plug Type: CASING Plug Tagged: X Set sks cmt from ft. to 531 ft. Plug Type: CASING Plug Tagged: X Set sks cmt from ft. to 531 ft. Plug Type: CASING Plug Tagged: X Set sacks and squeeze at ft. with sacks. Leave at least 100 ft. in casing CICR Depth (Cast Iron Cement Retainer Depth) Set sacks half in. half out surface casing from ft. to ft. Plug Tagged: Set 10 sacks at surface Cut four feet below ground level, weld on plate Above Ground Dry-Hole Marker: Yes No Set sacks in rat hole Set sacks in mouse hole Additional Plugging Information for Subsequent Report Only Casing Recovered: ft. inch casing Plugging Date: "Wireline Contractor: "Cementing Contractor: Type of Cement and Additives Used: Flowline/Pipeline has been abandoned per Rule 1103 Yes No *ATTACH JOB SUMMARY	Set 10 Set 20 Set 15 Set 25 Set Perforate and so	sks cmt from 7118 ft sks cmt from 3660 ft sks cmt from 1470 ft sks cmt from 631 ft sks cmt from ft ft	. to 7018 ft . to 3397 ft . to 1300 ft . to 531 ft	Plug Type: Plug Type: Plug Type:	CASING CASING	Plug Tagged: X Plug Tagged: X
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Casing Recovered: ft. ofinch casing Plugging Date:*Wireline Contractor: *Cementing Contractor: Type of Cement and Additives Used: Flowline/Pipeline has been abandoned per Rule 1103 Yes No *ATTACH JOB SUMMARY	Set	sacks in rat hole	Set	t sacks ir	n mouse hole	
	*Wireline Contrac	ctor:				
			1103 Yes	. No		*ATTACH JOB SUMMARY

	and blow down well if necessary	
	sk surface annulus for pressure 3-1698 and Chad Vannest #970-381-5818 for orders)	
4. MIRU P&A equipment, NDWH, NI 5. TOH and tally 2-3/8" tubing (inspe	JBOP	
6. RU wireline, PU 4-1/2" 11.6# JC/0	GR, TIH to 7,766', TOH	
7. PU 4-1/2" 11.6#, 10K, CIBP, TIH a 8. TIH and CDB 2 sxs of 15.8# class	and set at 7,766', TOH . G neat 1.15 cu.ft./sack yield cement on top, TOH	
(2 sxs is 26' in 4-1/2", TOC: 7,740') 9. PU 4-1/2" 11.6#, 10K, CIBP, TIH (and set at 7.331' TOH	
10. TIH and CDB 2 sxs of 15.8# clas (2 sxs is 26' in 4-1/2", TOC: 7,305')	is G neat 1.15 cu.ft./sack yield cement on top, TOH, RD wireline	
11. TIH to 3,750', circulate wellbore	clean and pressure test casing to 500 psi. for 5 minutes	
(If pressure test fails, call Paul Herrin Note: If casing pressure test fails (st	ng and Chad Vannest ep 11) additional steps/services required by the COGCC/BLM are not i	ncluded in this bid and
will be billed per our 2017 Time and 12. Pump 20 sxs of 15.8# class G ne	Material Price Schedule. eat 1.15 cu.ft./sack yield cement to cover 1st DV tool	
(20 sxs is 263' in 4-1/2", TOC: 3,487		
14. Pump 22 sxs of 15.8# class G ne (22 sxs is 290' in 4-1/2", TOC: 1,209	eat 1.15 cu.ft./sack yield cement to cover TOC from 1st DV and 2nd DV , TOC from 1st DV is 1,460', bottom of 2nd DV is 1,320')	/
15. TOH and LD to 681' 16. Pump 20 sxs of 15.8# class G no (20sxs is 263' in 4-1/2", TOC: 418', s	eat 1.15 cu.ft./sack yield cement to cover surface casing shoe surface casing shoe at 581')	
	s of 15.8# class G neat 1.15 cu.ft./sack yield cement to surface	
18. TOH and LD tubing, RDMO, dig	out and cut off wellhead, verify cement at surface, top off if necessary cfill pit, clean location, P&A complete	
I hereby certify all statements made i	n this form are, to the best of my knowledge, true, correct, and comple	te.
Signed:	Print Name: Paul Herring	
Title: Landman	Date: 9/22/2017 Email: paul.herring@topoper	ating.com
December the information was ideal.	and this Wall About designed (Farm 0) and the could be could	Dulas and annihable
orders and is hereby approved.	erein, this Well Abandonment Report (Form 6) complies with COGCC	Rules and applicable
COGCC Approved: McCoy, Dian	e Date:	
	Date.	10/12/2017
CONDITIONS OF APPROVAL, IF A		
CONDITIONS OF APPROVAL, IF A		
	NY: Expiration Date:	
	NY: Expiration Date: Description Note: Changes made to plugging procedure. 1) Provide 48 hour notice of plugging MIRU via electronic Form 2) Properly abandon flowlines as per Rule 1103. File electronic	4/11/2018 n 42.
	Note: Changes made to plugging procedure. 1) Provide 48 hour notice of plugging MIRU via electronic Form 2) Properly abandon flowlines as per Rule 1103. File electronic abandonment complete.	4/11/2018 n 42. c Form 42 once
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Att Doc Num Name 401411121 FORM 6 INTENT SUBMITTED 401411231 PROPOSED PLUGGING PROCEDURE 401411237 WELLBORE DIAGRAM 401411257 WELLBORE DIAGRAM

Total Attach: 4 Files

General Comments

Corrected cement and casing section. Plugs have been added and depths and types changes. Engineer on hold- emailed operator- no response to quesitons on the form: Will casing be pulled? Is there a fish in the hole? Are there any uncemented casing leaks? It looks like the plug types are listed incorrectly- all were submitted as "stub plugs" The J-sand perfs and Codell perfs will need to be abandoned separately. Need J-sand plug. The surface casing shoe plug needs to extend from at least 50 feet below to 50 feet above the shoe. I'll have to change the proposed depths so we have the coverage we need. Permit Filled in zones tab in accordance with the WBD and scoutcard. 09/27/201	<u>User Group</u>	Comment	Comment Date
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	Engineer	no response to quesitons on the form: Will casing be pulled? Is there a fish in the hole? Are there any uncemented casing leaks? It looks like the plug types are listed incorrectly- all were submitted as "stub plugs" The J-sand perfs and Codell perfs will need to be abandoned separately. Need J-sand plug. The surface casing shoe plug needs to extend from at least 50 feet below to 50 feet above the shoe. I'll have to change the proposed depths so we have the coverage	10/06/2017
Public Room Document verification complete 09/25/17 09/25/201	Permit	Filled in zones tab in accordance with the WBD and scoutcard.	09/27/2017
	Public Room	Document verification complete 09/25/17	09/25/2017

Total: 4 comment(s)

FORM 42 Rev 03/15

State of Colorado Oil and Gas Conservation Commission

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



OGCC RECEPTION

Receive Date: 10/22/2017

Document Number: 401437174

FIELD OPERATIONS NOTICE

The Form 42 shall be submitted as required by Rule, Notice to Operators, Policy, or Condition of Approval.

A Form 42 Update shall be submitted to revise the scheduled date or time on a previous Form 42 - Advance Notice of Field Operations.

A Form 42 Update must be for the same well, location, or facility and for the same Field Operation as a previous Form 42.

NOTE: Operator's Contact for Advance Notices of Field Operations should be available 24 hours a day, 7 days a week and should have the most current scheduling information for the operation. Operator's Contact for other notices should be able to respond to questions regarding the reported information.

Update of a previous Form 42 Notice NO					
	Entity Inf	ormation			
OGCC Operator Number: 39560			Contact Person:	Pau	l Herring
Company Name: TOP OPERATING COMPANY FDBA MU	RRAY J HEF	RRING LTD	Phone: (720) 663	1698	
Address: 3609 S WADSWORTH BLVD STE 340			Fax: ()		
City: LAKEWOOD State: CO Zip:	80235	5	Email: paul.herr	ing@topoperat	ing.com
API #: 05 - 123 - 18510 - 00 Facility ID:			Location ID:		
Facility Name: LONGMONT 8-10K			Submit By	Other Operato	r
Sec:8 Twp: _2N Range: _68W	QtrQtr:	NWSE	Lat: 40.150	489 Long:	-105.023448
START OF PLUGGING OPERATIONS - 48-hour notice	required				
Date:10/25/2017 Time:6:00 (HH:MM)				
Lhoroby contify all atotaments made in this form are to	the best of	move len overloede	vo truo correct on	d complete	
I hereby certify all statements made in this form are, to	the best of	my knowiedo	ge, true, correct and	a complete.	
Print Name: Paul Herring	Email:	paul.herring	@topoperating.con	n	
Signature:	Title:	Landman		Date:	10/22/2017

Date Run: 10/22/2017 Doc [#401437174] Well Name: LONGMONT 8-10K

3			Name of the last o						
C. C.		,		11111111			_0>		
FORM		State of	020000					00	1 1
2	Outav	nd Gas Conserva		pp .	- 1	COLOPADO			MI 1895
Rev 12/05			80203 Phone (303)894-2100	Fax (303)894	2109		R	ECEIVI	ED
		PLICATION FOR		, ,		XI SHE			
Dnill,	Deepen	, Re-enter,	✓ Recomplete	e and Opera	te		I I S	EP 03 20	ina []
TYPE OF WEI	L				Refilm	, 🔲		ging Bond Surety ID	
OIL GAS					Sidetra	ck		COCC	
SINGLE ZONE	M M	ULTIPLE ZONES	COMMINGLE Z	ONES 🗸					£ 1988 @
Name of Oper	ator TOP OPER	EATING CO	4 COGCC Op	erator Numb	er .	39560	Atta	chment Checklist	OP COGCC
		Y AVE STE 230			· ·		APD (Ong & 1 Copy	
	WOOD		CO Zip 8022	27			Form		
Contact Name	MURRAY J H			03) 727-99	15	Fax (303) 727-99	925 Well k	ocation plat	
	LONGMONT			- (Well Number	8-10K	Торо	map	
Unit Name (if a					Unit Number			al lease map	
100	al Measured Depth	7952					-	e agrmt/Surety	
, roposed roa			OCATION INFORM	ATION				y notice letter	
O QtrQtr NW	SE Sec	C 8-10K TWP 2N	Rng 68\		Meridian	6 TH PM		ted Drilling Plan	
Latitude		· <u> · · · · · · · · · · · · · · · ·</u>	Longitude			<u> </u>		ception Location	
		FNLFSL		FEUFWL			ļ	Request	
Footage At Su	The state of the s		1650	E			Excep	tion Loc Waivers	
	WATTENBE			_Field Numb	er <u>907</u>	50		Contingency Plan	
Ground Elevat	ion <u>4865</u>	13	County WELD				Feder	al Drilling Permit	
GPS Data									
Date of Measu	rement	PDOP Rea	iding	Instr	ument Operat	or's Name			
f well is	Directional	Horizontal (high			drilling plan	Bottomhole Se			
ootage At Top of i	Prod Zone	PNL/FSL	i ———	FEL/FW	ī	la [FNL/FSL		FELFWL
			!		At Bottom Ho	<u> </u>			<u> </u>
Is location in a	high density area (Rule 603b)?	Yes No	1	/	′			
	T	oublic road, above groun	nd utility or railroad	1/2 MI	NORTH			221	
Distance to Ne	earest Property Line	<u>1650</u>		Distance to	nearest well	permitted/completed	in the same form	nation -3/4-MIL	E
			LEASE, SPACING	AND POO	LING INFO	RMATION			
Objective For		Formation Code	Spacing Order Num	nber (s)		age Assigned to We		Configuration (N/2, S	3E/4, etc)
IIOBRARA/	CODELL N	B-CD	407		80		W/2	SE/4	
						 			
						*			
1 Mineral Owner	rship 7 Fee	e/ State	Federal	Indian		Lease #			
2 Surface Owne		•	Federal	Indian					1
3 Is the Surface	Owner also the Min	neral Owner?	Yes No	/	Surface Sure	ty ID#			
3a If 23 is Yes		e Owner(s) signature on		Yes	No			_	
3b If 23 is No		Owners Agreement Atta			Surface Bond		urface Bond	\$5,000 Surface	
9400			mineral lease description	n upon which	this propose	d wellsite is located (attach separate s	sheet/map if you pre	ifer)
	ec 3 Sw A		24 68 D	Total Acres	m 1				
DISIBILITIES TO NE	arest Milieral Lease	e Liné <u>1,650</u>				80			
			DRILLING PL	ANS AND	PROCEDU	RES			
Is H2S anticipa			If Yes, attach contingend	cy plan					
	ns be encountered of		Yes 🗸	_					
		oil based muds be used is location in a sensitive		Yes	14	No	15/1514	permit may be req	
Mud disposal	Offsite	Onsite	area (Rule 903)/	Yes	لكدا	NO 1728, 29 OF 30	are "Yes" a pit	permit may be req	nisea
Method	Land Fa		Spreading	Disposal F	acility [Other N/A	A RECOMPLE	TION	ı
			res a prt permit (Rule 905					-	
String	Size of Hole	Size of Casing	Weight Per Foot	Settin	g Depth	Sacks Cement	Cement Botto	m Cemer	nt Top
SURF.	12 1/4"	8 5/8"	24 #	581		325	581	SURF	
ROD	7 7/8"	4 1/2"	11 6	7952		250	7952	SURF 6	45le
		 		132		600	361	1460	
		1	Stage Tool	1,5%	<u> </u>	430	1320	-1	
BOP Equipme	ot Type	Annular Preventor	Double Ram	0	ting Head	Alone	·	1	
			L WILL BE PERFO		ting Head	None			
	····	IN THE OUDEL	<u> </u>	CIVIED	MIND FIVE	OLD,		· ·	
		ook place on (date)		waived, or	is not requir	ed Provide suppo	orting documer	tation if consultat	ion
4 Initial Rule 306 Consultation took place on (date) IV/A ,was waived, or is not required Provide supporting documentation if consultation has been waived or if good faith effort did not result in consultation PERMIT SUBMITTED TO COGCC PRIOR TO COMPLIANCE WITH RULE 306 CONSULTATION SHALL BE RETURNED UNAPPROVED									
herehy led	futhat a complete	e permi package hos	MPLIANCE WITH RUI been sent to the appl	LE 306 CO	NSULTATIO	IN SMALL BE RE	UKNED UNA	PPROVED	
to the best of	ny knowledge,	rue, correct, and com	iplete	IICADIO LOC	a Governme	ar Designee(s) ar	iu ali statemen	to made in this to	imare,
Signed	1 mare	A Human		Print Nam	e MUR	RAY J HERRII	NG		
-11-	PRESIDENT			Date 07		Email T	OPOPRTNG	840LC014	
ased on the info			on for Permit-to-Drill c	omplies wi	th COGCC F	Rules and applicab	le orders and i	s hereby approve	ıd
OGCC Approv	ed	arch A	osling no	- G	9°4°4	COGCC	Date	11/4/2	Soo of
		n	ZU	702	344			11-11	
ADI	NUMBER	Permit Number	IDITIONS OF APPR	OVAL IE	ANV	Expirati	on Date	11/3/0	1007
Ari	····	UUN	WITHOUTS OF AFFR	UVAL, IT	rally I				

Pressure test casing to 500 psi prior to recompletion, if does not hold pressure for 15 minutes contact COGCC During fracing monitor Bradenhead pressure. Before production a Bradenhead test, witnessed by COGCC staff will be run as a baseline. Once completed and tested, the Bradenhead valve needs to left open and allowed to vent. A Bradenhead test will be performed every six months - the Bradenhead valve will be shut-in for one week prior to the test and a chart recorder is to be run in lieu of being witnessed and a Form 17 needs to be submitted, documenting the test. Provide a 5-drilled GPS on Sandry.

Inspector Name: HICKEY, MIKE

FORM INSP

Rev

05/11

State of Colorado Oil and Gas Conservation Commission

ES **)** DE ET OE

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

FIELD INSPECTION FORM

	Facility ID	Loc ID	Tracking Type		
Identifier	250707	330147		Inspector Name:	HICKEY, MIKE

COLORADO			,				
	Inspection Date:						
OIL& GAS	02/13/2013						
	Document Number:						
	<u>667601133</u>						
	Ove	rall Ins	spectio	n:			
	J	Unsatisfactory					

_				•			
()	per	ato	ır II	ntc	۱rm	ıatı	n

OGCC Oper	ator Number:	39560	Nam	e of Operator:	TOP OPER	RATING CO	OMPANY			•
Address:	10881 ASBURY	AVE STE	230							
City:	LAKEWOOD		State:	СО	Zip:	80227				

Contact Information:

Contact Name	Phone	Email	Comment
Herring, Debora		toporting@aol.com	

Compliance Summary:

QtrQtr: NWS	SES	Sec: 8	Twp:	2N	Range:	68W	
Insp. Date	Doc Num	Insp. Type	Insp Status	Satisfactory /Unsatisfactory	PA P/F/I	Pas/Fail (P/F)	Violation (Y/N)
02/21/2012	667600041	PR	PR	S			N
06/18/2010	200255977	ВН	SI	S			N
06/18/2010	200260513	PR	PR	U			Υ
12/15/2009	200223958	ВН	SI	S			N
10/01/2008	200200618	PR	PR	U			Υ
10/01/2008	200201331	PR	SI	U			Υ
09/26/2008	200200597	PR	PR	U			Υ
06/13/2005	200072505	ВН	SI	U		F	Υ
04/24/1996	500177667	ВН	SI			Р	N
09/15/1995	500177666	ВН	SI			F	Υ
04/05/1995	500177665	ВН	PR			F	N
01/23/1995	500177664	ES	PR			Р	N

Inspector Comment:

Well inspection associated with periodic bradenhead test as required. Plunger lift equipment at the wellhead is dripping oil at multiple points including the master valve. Oil stained soils and weeds within the tank berm require clean up. Unused equipment within the separator berm requires removal. Unused portable toilet on location requires removal.

Related Facilities:

Facility ID	Туре	Status	Status Date	Well Class	API Num	Facility Name	
250707	WELL	PR	05/14/2009	GW	123-18510	LONGMONT 8-10K	\overline{X}

Equipment:	Location Inventory

Inspector Name: HICKEY, MIKE Special Purpose Pits: Drilling Pits: Wells: Production Pits: Separators: Condensate Tanks: Water Tanks: Electric Motors: Gas or Diesel Mortors: Cavity Pumps: LACT Unit: Pump Jacks: Oil Pipeline: Water Pipeline: Electric Generators: Gas Pipeline: VOC Combustor: Gas Compressors: Oil Tanks: Dehydrator Units: Multi-Well Pits: Pigging Station: Flare: Fuel Tanks: Location Signs/Marker: Satisfactory/Unsatisfactory CA Date Type Comment Corrective Action OTHER Satisfactory Location entrance sign. TANK Satisfactory LABELS/PLACARDS Install sign to comply with rule 04/01/2013 **BATTERY** Unsatisfactory WELLHEAD Unsatisfactory Install sign to comply with rule 04/01/2013 210.b. Emergency Contact Number: (S/U/V) Satisfactory Corrective Date: Comment: Corrective Action: **Good Housekeeping:** Satisfactory/Unsatisfactory Type Comment Corrective Action CA Date **WEEDS** Unsatisfactory Control weeds. 04/01/2013 Spills: Volume Type Area Corrective action CA Date Produced Water Tank <= 5 bbls Clean up oil stained soils within the tank berm. 04/01/2013 Multilple Spills and Releases? Fencing/: Satisfactory/Unsatisfactory Type Comment Corrective Action CA Date Satisfactory **Equipment:** CA Date Satisfactory/Unsatisfactory Type Comment Corrective Action **Bird Protectors** 2 Satisfactory Horizontal Heated Satisfactory Separator **Emission Control** Satisfactory Device Gas Meter Run Satisfactory 1 Plunger Lift Unsatisfactory Plunger lift Repair all leaks and clean 04/01/2013 equipment is leaking up oil at the wellhead. at multiple points including the master valve.

Inspector Name: HICKEY, MIKE Facilities: New Tank Tank ID: Contents # Capacity Туре SE GPS PRODUCED WATER 1 OTHER S/U/V: Satisfactory Comment: Corrective Action: Corrective Date: <u>Paint</u> Adequate Condition Other (Content) Other (Capacity) 150 Bbl. Other (Type) **Berms** Capacity Permeability (Wall) Permeability (Base) Maintenance Type Corrective Action Corrective Date Comment Facilities: New Tank Tank ID: Contents Capacity SE GPS Type **CRUDE OIL 300 BBLS** STEEL AST 40.150570,105.023100 S/U/V: Satisfactory Comment: Corrective Action: Corrective Date: **Paint** Adequate Condition Other (Content) Other (Capacity) Other (Type) **Berms** Permeability (Wall) Capacity Permeability (Base) Maintenance Type Earth Adequate Walls Sufficent Adequate **Base Sufficient** Corrective Action Corrective Date Comment Venting: Yes/No Comment Flaring: Satisfactory/Unsatisfactory Comment CA Date Type Corrective Action Ignitor/Combustor Satisfactory

Inspector Name: HICKEY, MIKE **Predrill** Location ID: 330147 Site Preparation: Soil Stockpile: Lease Road Adeq.: Date: CDP Num.: Corrective Action: Form 2A COAs: Comment: <u>CA</u>: Date: Wildlife BMPs: Comment: <u>CA</u>: Date: Stormwater: Present Erosion BMPs Present Other BMPs Corrective Action: Date: Comments: Erosion BMPs: Other BMPs: Comment: Staking: On Site Inspection (305): Surface Owner Contact Information: Address: Name: Cell Phone: Phone Number: Operator Rep. Contact Information: Landman Name: Phone Number: Date Onsite Request Received: Date of Rule 306 Consultation: Request LGD Attendance: LGD Contact Information: Phone Number: Agreed to Attend: Summary of Landowner Issues: Summary of Operator Response to Landowner Issues: Onsite Inspection Memorandum Summarizing Discussions at Inspection as Attachment: **Facility** Facility ID: 250707 Type: WELL API Number: 123-18510 PR Status: Insp. Status: PR Producing Well

Facility ID: 250707 Type: WELL API Number: 123-18510 Status: PR Insp. Status: PR

Producing Well

Comment:

Environmental

Spills/Releases:

Inspector Name: HICKEY, MIKE Description: Type of Spill: Estimated Spill Volume: Comment: Corrective Action: Date: GPS: Lat Long Reportable: Proximity to Surface Water: Depth to Ground Water: Water Well: Lat Long GPS: DWR Receipt Num: Owner Name: Field Parameters: Sample Location: Emission Control Burner (ECB): Comment: Wildlife Protection Devices (fired vessels): **Reclamation - Storm Water - Pit Interim Reclamation:** Date Interim Reclamation Started: Date Interim Reclamation Completed: Land Use: Comment: Debris removed? In CM 1003a. CA Date Waste Material Onsite? In CM CA Date Unused or unneeded equipment onsite? In CM CA Date Pit, cellars, rat holes and other bores closed? Guy line anchors removed? ____ CM ___ CA Date Guy line anchors marked? ____ CM ____ CA Date 1003b. Area no longer in use? Pass Production areas stabilized? Pass 1003c. Compacted areas have been cross ripped? Pass 1003d. Drilling pit closed? Subsidence over on drill pit? Cuttings management: 1003e. Areas no longer needed for drilling or subsequent operations for have been re-vegetated to 80% of pre-existing? In Production areas have been stabilized? Pass Segregated soils have been replaced? RESTORATION AND REVEGETATION Cropland

Inspector Name: HICKEY, MIKE Recontoured Top soil replaced Perennial forage re-established Non-Cropland Top soil replaced Pass Recontoured Pass 80% Revegetation In 1003 f. Weeds Noxious weeds? Comment: Overall Interim Reclamation In Process Final Reclamation/ Abandoned Location: Date Final Reclamation Started: Date Final Reclamation Completed: Final Land Use: Reminder: Comment: Pit mouse/rat holes, cellars backfilled Well plugged No disturbance /Location never built Debris removed Regraded _____ Contoured ____ Culverts removed ____ Access Roads Gravel removed Locations, facilities, roads, recontoured Location and associated production facilities reclaimed Compaction alleviation _____ Dust and erosion control Cropland: perennial forage Non cropland: Revegetated 80% Weeds present Subsidence Comment: Corrective Action: Overall Final Reclamation Multi-Well Location Storm Water: Loc Erosion BMPs BMP Lease Road Erosion Lease BMP Chemical BMPs | Chemical BMP Comment Maintenance BMPs Maintenance Maintenance Seeding Berms Pass Corrective Date: S/U/V: Satisfactory Comment: CA:

Inspector Name: MONTOYA, JOHN

FORM INSP

Rev X/15

State of Colorado Oil and Gas Conservation Commission

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



Inspection Date: 11/06/2017
Submitted Date: 11/06/2017

Document Number:

677400017

FIELD INSPECTION FORM

Loc ID 330147	Inspector Name: MONTOYA, JOHN	•			Status Summary: THIS IS A FOLLOW UP INSPECTION		
Operator Info	rmation:				FOLLOW UP INSPECTION REQUIRED		
OGCC Opera	tor Number: 395	60		NO FOLLOW UP INSPECTION REQUIRED			
Name of Operator: TOP OPERATING COMPANY FDBA MURRAY J				′ J	Findings:		
Address: 360	9 S WADSWORTH BI	LVD STE 340			1 Number of Comments 0 Number of Corrective Actions		
City: LA	KEWOOD Stat	e: CO	Zip: _	80235	Corrective Action Response Requested		
Contact Infor	mation:						

Contact Name	Phone	Email	Comment
Herring, Paul	303-727-9915	paul.herring@topoperating.co m	
Deranleau, Greg		greg.deranleau@state.co.us	

Inspected I	spected Facilities:						
Facility ID	Туре	Status	Status Date	Well Class	API Num	Facility Name	Insp Status
250707	WELL	SI	04/01/2017	GW	123-18510	LONGMONT 8-10K	PA
	_						

General Comment:

Inspector Name: MONTOYA, JOHN

		,								
				Inspected	d Facilities					
Facility ID: _	250707	Type: _	WELL	API Number:	123-18510	Status:	SI	Insp. Status:	PA	

COGCC Comments						
Comment	User	Date				
WELL WAS PA ON 10/31/17 THEY ARE IN PROCESS OF GETTING EQUIPMENT OF OF LOCATION	montoyaj	11/06/2017				

FORM NO. GWS-31 STATE OF COLORADO, OFFICE OF THE STATE						
1. WELL PERMIT NUMBER File-Number MH - 3 2 OWNER NAME(S) City of Longmont 22	7218 3467 DEU 1 6 1999					
Mailing Address 375 Airport Road City, St. Zip Longmont, Colorado 80503 Phone (303) 572-0719	WATER RESOURCES STATE ENGINEER COLO.					
3. WELL LOCATION AS DRILLED: SW 1/4 NE 1/4, Sec DISTANCES FROM SEC. LINES:	t. from <u>East</u> Sec. line. OR (east or west) LOTBLOCK FILING(UNIT)					
4. GROUND SURFACE ELEVATION Not avail ft. DR	· ·					
DATE COMPLETED October 25, 1999 . TOTAL D 5. GEOLOGIC LOG: Depth Description of Material (Type, Size, Color, Water Location)	6. HOLE DIAM. (in.) From (ft) To (ft) 8 0.0 13.9					
Borehole log is attached.						
	7. PLAIN CASING OD (in) Kind Wall Size From(ft) To(ft) 2 PVC 0.154 in. +2.6 7.4 PERF. CASING: Screen Slot Size: 0.020 - inch 2 PVC 0.154 in. 7.4 12.3					
	8. FILTER PACK: Material Colo, Silica Sand Size 10 - 20 Interval 6.3' - 12.5' 9. PACKER PLACEMENT: Type N/A Depth N/A					
	10. GROUTING RECORD:					
REMARKS: Owners Well Designation MW-4c	Material Amount Density Interval Placement Bentonite chips 0.5 cu. ft. N/A 12.5' - 13.9' Free fall Bentonite chips 0.4 cu. ft. N/A 5.2' - 6.3' Free fall Cement/Bent 1.5 cu. ft. 94 lb./7 gal. 1.0' - 5.2' Free fall Concrete 0.4 cu. ft. 80 lb./7 gal. 0.0' - 1.0' Free fall					
11 DISINFECTION: Type N/A	Amt. Used					
WELL TEST DATA: Check box if Test Data is submitted on Supplemental Form. TESTING METHOD N/A Static Level ft. Date/Time measured , Production Rate gpm. Pumping level ft. Date/Time measured , Test length (hrs.) .						
13. I have read the statements made herein and know the contents thereof, and that they are true to my knowledge. [Pursuant to Section 24-4-104 (13)(a) C.R.S., the making of false statements herein constitutes perjury in the second degree and is punishable as a class 1 misdemeanor.] CONTRACTOR Dakota Drilling Inc. Phone (303) 893-2810 Lic. No. Mailing Address 1340 Umatilla Street Denver, Colorado 80204						
Name/Title (Please type or print) Edward J. Pottorff P.G. / Hydrogeologist Signature	rel J. Pottoff Date 12/13/99					

Form No. GWS-25

OFFICE OF THE STATE ENGINEER COLORADO DIVISION OF WATER RESOURCES 818 Centennial Bldg., 1313 Sherman St., Denver, Colorado 80203

(303) 866-3581

DOTY & ASSOCIATES

GOLDEN, CO 80403-

20011 GOLDEN GATE CYN RD #100

AUTH

APPLICANT

WELL PERMIT NUMBER 223467

DIV. 1

WD 5

DES. BASIN

MD

APPROVED WELL LOCATION

WELD COUNTY

SW 1/4 NE 1/4 Section 8

Township 2 N Range 68 W Sixth P.M.

DISTANCES FROM SECTION LINES

2600 Ft. from North

Section Line

2500 Ft. from East

Section Line

(303) 279-9181 PERMIT TO CONSTRUCT A WELL

ISSUANCE OF THIS PERMIT DOES NOT CONFER A WATER RIGHT CONDITIONS OF APPROVAL

- This well shall be used in such a way as to cause no material injury to existing water rights. The issuance of this permit does not assure the applicant that no injury will occur to another vested water right or preclude another owner of a vested water right from seeking relief in a civil court action.
- The construction of this well shall be in compliance with the Water Well Construction Rules 2 CCR 402-2, unless approval 2) of a variance has been granted by the State Board of Examiners of Water Well Construction and Pump Installation Contractors in accordance with Rule 18.
- Approved pursuant to CRS 37-92-602(3)(b)(l) for uses as described in CRS 37-92-602(1)(f). Use of this well is limited to monitoring water levels and/or water quality sampling.
- 4) Approved for the use of an existing well acknowledged for construction under monitoring hole notice MH-37218, and is known as MW-4C.
- This well must be equipped with a locking cap or seal to prevent well contamination or possible hazards as an open well. The well must be kept capped and locked at all times except during sampling or measuring.
- Records of water level measurements and water quality analyses shall be maintained by the well owner and submitted to the Division of Water Resources upon request.
- Upon conclusion of the monitoring program the well owner shall plug this well in accordance with Rule 15 of the Water Well Construction Rules. A Well Abandonment Report must be completed and submitted to the Division of Water Resources within 60 days of plugging.
- 8) The owner shall mark the well in a conspicuous place with well permit number(s) and name of aquifer as appropriate, and shall take necessary means and precautions to preserve these markings.
- This well must have been constructed by or under the supervision of a licensed well driller or other authorized individual according to the Water Well Construction Rules.
- 10) This well must be located not more than 200 feet from the location specified on this permit.

NOTE: Construction Variance 99-153A.

JMW Z/11/00

APPROVED

Receipt No. 0454451

JMW

State Engineer

FEB 1 6 2000

COLORADO DIVISION OF WATER RESOURCES DEPARTMENT OF NATURAL RESOURCES 1313 SHERMAN ST., RM. 818, DENVER CO 80203 phone - info: (303) 866-3587 main: (303) 866-3581

Water Well Permit Application

RECEIVED

Form GWS-46 (12/95)

MONITORING/OBSERVATION

Must be completed in black ink pretyped Review instructions prior to completing form. 1. APPLICANT INFORMATION 6. USE OF WELL Name of applicant M GROUND WATER SAMPLING (quality) MONITOR WATER LEVELS **Doty & Associates** OTHER: Mailing Address 7. WELL DATA 20011 Golden Gate Canyon Road Total deoth Apuifer Alluvial 12.3 Suite 100 feet State Zip code 8. CONSULTANT INFORMATION (optional) 80403 Colorado Golden **Doty & Associates** Telephone number (include area code) (303)279-9181 20011 Golden Gate Canyon Rd Suite 100 Golden, Colorado 80403 2. TYPE OF APPLICATION (check applicable box(es)) ☐ Use existing well ☐ Replacement for -(303)279-9181 ☑ Construct new well permit no. 9. PROPOSED WELL DRILLER (optional) ☐ Other: License numbe 3. REFER TO (if applicable): Monitoring hole acknowledgment # Well name or # Dakota Drilling, Inc. MW-4c 37218 10. SIGNATURE of applicant(s) or authorized agent MH-4. LOCATION OF WELL The making of false statements herein constitutes perjury Quarter/quarter Quarter County in the second degree, which is punishable as a class 1 mis-Weld SW NE demeanor pursuant to C.R.S. 24-4-104(13)(a). I have read 1/4 1/4 Principal Meridian Section Township NorS Range E or W the statements herein, know the contents thereof, and state 8 68 6th that they are true to my knowledge. Distance of well from section lines tt. from **図 N** □ s 2500 tt. from 🖾 E 🗆 W Well location address, if different from applicant address (if applicable) N/A Edward J. Pottorff, P.G. For replacement wells only - distance and direction from old well to new well direction Hydrogeologist 5. OWNERSHIP INFORMATION WELL OWNER NAME (if different than applicant) See the reverse side of this form for instructions, fee, and City of Longmont advisory information **OPTIONAL INFORMATION** 375 Airport Road USGS map name DWR map no. Surface elev. Longmont Quadrangle Zip Code Colorado 80503 Longmont Office Use Only MIH Jum Telephone no, (include area code) (303)572-0719 Notice V. PROPERTY OWNER NAME (if different than above) const-Var 99-153A CO 1001/ Address CHECKS TR#454451 121699 DIV OF WATER RESOURCES Zip Code BA Telephone no. (include area code) USE MD

STATE OF COLORADO

BOARD OF EXAMINERS OF WATER WELL CONSTRUCTION AND PUMP INSTALLATION CONTRACTORS

Division of Water Resources

1313 Sherman Street, Room 818 Denver, CO 80203 Phone (303) 866-3581

FAX (303) 866-3589

http://boe.state.co.us

RECEIVED

OCT 2 5 1999

October 15, 1999

DEC 1 6 1999

RECEIVED

WATER RESOURCES STATE ENGINEER COLO. Bill Owens Governor

Greg E. Walcher Executive Director, DNR

Hal D. Simpson. P.E. Secretary

Mr. Edward J. Pottorff, P.G.

Doty & Associates Environmental, Ground-Water and Waste Management Engineers 20011 Golden Gate Canyon Road

00C

Golden, CO 80403-8125

RE:

Request for Blanket Variance, Monitoring and Observation Holes

Request No: 99-153A

DCTY

Dear Mr. Pottorff;

Thank you for the Request for Variance received on October 8, 1999 regarding monitoring and observation holes. Your request has been reviewed for the Board of Examiners of Water Well Construction and Pump installation Contractors. The request is specifically for a variance from Rules 10.3, 10.4.2, 10.4.3, 10.4.6, 10.4.7 and 10.5.2.1.

Pursuant to Rule 18 and the authority granted by the Board, a blanket variance to Rules 10.3, 10.4.2 10.4.3 10.4.6, 10.4.7 and 10.5.2.1 is granted subject to the following conditions:

- 1) The well construction will be in accordance with the Water Well Construction Rules except those Rules for which a variance was granted.
- 2) The Monitoring holes shall be constructed in a similar manner to the diagrams provided. In some instances it may be necessary to obtain a site specific variance when the construction of monitoring and observation wells differ significantly from the standard construction described.
- 3) If the wells and/or monitoring holes are to be permanent installations for more than one year, a permit must be obtained from the Division of Water Resources
- Please provide a copy of this blanket variance approval with the Notice of Intent to Construct Monitoring Holes, Permit Applications or Work Reports submitted to this office.

Granting the request for variance to minimum water well construction standards does not relieve the owner of potential responsibility or liability in the event contamination of the water source results from such construction, nor does the grantor assume any responsibility or liability should contamination occur.

If you have any questions regarding this matter please contact this office.

Sincerely

George D. VanSlyke

Chief, Geotechnical Services

GDV/gla:s:\bordexam\variance99\99-153A.doc

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DOTY & ASSOCIATES

ENVIRONMENTAL, GROUND-WATER AND WASTE MANAGEMENT ENGINEERS

DEC 16 1999

20011 GOLDEN GATE CANYON ROAD SUITE 100 GOLDEN, COLORADO 80403-8125 WATER RESOURCES STATE ENGINEER COLO.

TELEPHONE: (303) 279-9181

FAX: (303) 279-9186

December 13, 1999 1207-05

Office of the State Engineer Division of Water Resources 1313 Sherman Street Room 818 Denver, Colorado 80203

Subject:

CC:

Well Construction and Test Report Form and

Monitoring Well Permit Application

File Number MH-37218 Section 8, T2N, R68W Weld County, Colorado

Dear Sir or Madam:

Attached please find the GWS-31 Well Construction and Test Report form (original and one copy), the permit application (form GWS-46), and a check for \$60.00 for one new monitoring well installed at the location referenced above. Please note that the forms are signed by a Doty & Associates representative. The well boring did not penetrate a confining layer; therefore, Doty & Associates is serving as the "authorized individual" for well design and construction described in rule 7.1 of the Water Well Construction Rules. A copy of our approved blanket variance (request no. 99-153A) is also enclosed for your convenience.

I trust that the foregoing is complete enough for your review and evaluation. Please call if you have questions or need additional information.

Sincerely,

DOTY & ASSOCIATES

Edward J. Pottorff, P.G.

Richard Lee (w/ attachments)

	LC	G OF BORING	BORING NO. MW-4c RECEIVED SHEET 1 OF 1 DEC 16 1999					
	DATE MET	JECT: LONGMONT LANDFILL E DRILLED: 10/25/99 HOD: 4.25-INCH I.D. (8-INCH O.D.) HOLLOW S PRDINATES: NOT AVAILABLE			WATI STA GER	EH HES	OURCES	
	ОЕРТН (FEET)	MATERIAL DESCRIPTION	SAMPLER/BIT	% RECOVERY	SAMPLE NO.	BLOW COUNT	OTHER	
	_ 1	(0.0 - 0.3 ft.) Dark yellowish brown (10 YR 4/2) and dusky yellowish brown (10 YR 2/2), mottled, fine to coarse subangular silty SAND, trace to some clay, / trace roots, dry to damp, highly calcareous (SM)		94	2	7 8 16	Began Drilling at 10:50 am 10/25/1999	
	_ 3	(0.3 - 5.7 ft.) Moderate yellowish brown (10 YR 5/4) with dark yellowish brown (10 YR 4/2) patches, mottled, fine to medium subangular to subrounded SAND, some silt, trace roots, trace iron oxide stained patches, dry to damp, highly calcareous (SP-SM)	Augers					
/66	_ 5 _ 6 _ 7 _ 8	(5.7 - 10.7 ft.) Dark yellowish brown (10 YR 4/2), fine to coarse subangular to subrounded clayey SAND and sandy CLAY, trace to some silt, trace roots, moist, highly calcareous (SC-CL) from about 7 ft., becoming gravelly	E	100	3		Darker cuttings at about 6 ft.	
207-05 10/29	_ 9 _ 10 _ 11 _ 12	from 10 ft., becoming predominantly clayey and silty SAND, moderately to highly calcareous (SC-SM) (10.7 - 12.6 ft.) Dark yellowish orange (10 YR 6/6) and moderate yellowish brown (10 YR 5/4), mottled, coarse subangular gravelly SAND, trace silt, wet, slightly to	I.D. (8-inch	100	5	13 13 17	Split barrel wet at about 11 ft.	
	_ 13 _ 14	non-calcareous (SP) (12.6 - 13.0 ft.) Dark yellowish brown (10 YR 4/2) and brownish gray (5 YR 4/1), mottled, fine to medium subangular clayey SAND, trace to some silt, moist, slightly calcareous (SC)	Sompler/ 4	100	7 8	50	TD © 13.9 ft. 11:20 am on	
DOTY & ASSOCIATES	15 16 17 18 19	(13.0 - 13.9 ft.) Brownish gray (5 YR 4/1) and olive gray (5 Y 2/1), mottled, sandy CLAYSTONE with streaks clayey fine SANDSTONE, trace to some silt, damp, non-calcareous (BEDROCK)	Split Barrel				10/25/1999	
	_ 20					_ ,		

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