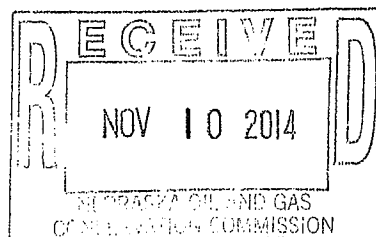


SALT WATER DISPOSAL WELL APPLICATION

BEFORE THE NEBRASKA OIL AND GAS CONSERVATION COMMISSION

IN THE MATTER OF THE APPLICATION OF)
TEREX ENERGY CORP FOR APPROVAL TO CONVERT THE)
LAUCOMER 13-1, LOCATED AT 25N/56W IN THE NE NW)
CORNER OF SEC. 13 IN THE SPOTTED TAIL CREEK)
FIELD IN SIOUX COUNTY NEBRASKA, FOR USE AS A SALT)
WATER DISPOSAL WELL), IN ACCORDANCE WITH)
CHAPTER 4 OF THE RULES AND REGULATIONS OF THE)
NEBRASKA OIL AND GAS CONSERVATION COMMISSION.)

vic
CASE NO. 14-14



A P P L I C A T I O N

Comes now Terex Energy Corp, Applicant in the above-entitled cause and herewith represents unto this Honorable Commission.

1. Applicant, Terex Energy Corp, will soon be duly authorized to transact business in the State of Nebraska, with offices being located at 520 Zang Street, Suite 250, Broomfield, CO, 80021.
2. Applicant requests approval to convert the Laucomer 13-1, API #26165211640000, to a Class II-D disposal well for the purpose of disposing of water produced with oil and gas in the Spotted Tail Creek Field, Sioux County, Nebraska, and from other such nearby wells as may be necessary in the future. The proposed disposal well is located as follows: 352 from the north line and 1907 from the west line of Section 13, T25N, R56W, Sioux County, Nebraska.
3. Attached hereto in Section A, marked Exhibits A and B1 and B2, and by this reference specifically incorporated and made a part hereof, is a plat outlining and showing the following:
 - a. The area within one-half mile of the proposed disposal well - Exhibit A.
 - b. All wells, including dry, producing, abandoned or drilling wells, properly located and designated thereon - Exhibit B1
 - c. The location of the proposed disposal well- Exhibit B2.
4. Attached hereto Section B, and by this reference specifically incorporated herein and made a part hereof, is a list showing the names and addresses of each owner or operator (fee, leasehold, mineral or royalty interest) of wells within one-half mile of the proposed disposal well.
5. The following information and data is presented as to the proposed disposal well in Section C and F-5:
 - a. The proposed disposal well is the Lacomer 13-1 located as

follows: T25N / R56W / Section 13 Sioux County, Nebraska. The Laucomer 13-1 was drilled to a total depth of 7926.95 ft. Surface casing was set at 604 ft., measured from KB and cemented to the surface. Said well was cased with 10 ¾ 40.4 PPFT - J55 casing set at 603ft cemented with 360 sacks . Said well is necessary to dispose of produced waters brought to the surface during oil and gas production operations.

b. The maximum proposed injection pressure will be 0.7 psig as measured at the surface. The projected maximum initial rate of injection will be 10,000 barrels per day. The fracture initiation pressure in the Sundance Sand and/or the Spearfish Sand is expected to be in excess of 4329 psig (0.7 X 6184 Depth) and is derived from pressures experienced during operations involving other area wells at the same approximate depth and characteristics as explained in Section I and Section J-1.

6. An analysis of a representative sample of fluids to be injected is attached hereto, marked Exhibit G in Section J-3, and by this reference specifically incorporated herein and made a part hereof.
7. Analysis of nearby fresh water wells is attached hereto, marked Exhibit H in Section J-4, and is by this reference specifically incorporated herein and made a part hereof.
8. Attached Hereto in Section E copies of the Log and the Well Completion Report for the Laucomer 13-1 are contained in the Commission files and are also attached hereto, marked Exhibit C, D, and E and by this reference specifically incorporated herein and made a part hereof.
9. A schematic of the Laucomer 13-1 showing total depth, casing purpose, size, specifications, setting depth, cement used, cement tops, tubing and packer setting depth, disposal zone and geological formation of the disposal zone is attached hereto, explained in Section F and Exhibit "F" and by this reference specifically incorporated herein and made a part hereof.
10. No unplugged or improperly plugged wells exist within the area to the best of our knowledge, which would allow migration of injected fluids or formation fluids to enter any fresh water strata as seen in Section A and Exhibit B and explained in Section H.
11. The lowest fresh water zone is the Ogallala Aquifer with the depth to the base of the fresh water zone being approximately 550 feet as explained in Section J-5.
12. The vertical distance separating the disposal zone and the base of the fresh water strata is approximately 5316 feet. There are no known existing faults which would allow communication between the disposal zone and the fresh water strata as explained in Section G.
13. The operator of the Laucomer 13-1 disposal well will be the Applicant, Terex Energy Corp with offices located in Broomfield, Colorado; and their mailing address is 520 Zang Street, Suite 250, Broomfield, CO 80021

14. A geological description of the Sundance Sand is that the formation consists of sandstone, light tan - tan, partially consolidated friable unconsolidated, med-coarse grained, subrounded - round, clayey - slightly calcareous cement, fair sorting, slight frosted trace bentonite. Sonic porosity = 12-15%. No Known fault zones exist.

A geological description of the Spearfish Sand is that the formation consists of sandstone, light - med grey, partly consolidated, subrounded, predominately clay cement, some calcite cement, fine - very fine, trace reworked shale fragments. Sonic porosity = 10-12%. No known fault zones exist.

The Sundance Sand occurs at approximately 5,866 ft. to 5,922 ft. and the Spearfish Sand is approximately 6,100 ft. to 6,184 ft. in the proposed disposal well. Further description of the Sundance Sand and Spearfish Sand is contained in Exhibit "F" attached hereto and by this reference specifically incorporated and made a part hereof.

WHEREFORE, Applicant requests that as to the approval of the proposed disposal well that this matter be set for hearing in the event that any person files a written objection to the same within ten (10) days of the filing of this application of the Nebraska Oil and Gas Conservation Commission, that notice of such hearing be given as required by law, and that upon such hearing, or without a hearing if no objection is filed, that an order be entered by the Commission approving the salt water disposal well as aforesaid.

Dated this 7 day of NOV, 20 .

Respectfully submitted,

TEREX ENERGY CORP., Applicant

By: Emil Magovac

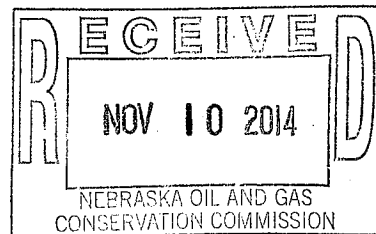
(Name/Title) Emil Magovac
Ops. Mgr.

APPLICATION FOR DISPOSAL WELL

SIOUX COUNTY, NEBRASKA

TEREX ENERGY CORP

CASE NUMBER UIC 14-14



A. PLAT MAP OUTLINING AFFECTED AREA

The affected area of the proposed disposal well will be the area surrounding the site in Sections 11, 12, 13, and 14 at T25N / R56W in Sioux County, NE. The site is about 14 miles north of Mitchell, Nebraska to the right on State Highway 29.

Exhibit A shows the affected areas. Exhibit B1 shows the locations of all of the wells drilled within ½ mile of the proposed disposal well and a few hundred feet beyond. Exhibit B2 Shows the Location of the proposed disposal well – The Laucomer 13-1 (Previously named the Bird 21-13H).

The only producing well near the area of influence is the Bird-Corman 11-16-2X in the SE corner of Sec. 11 – a little bit more than ½ mile from the proposed disposal well – See Section H for further information. Also in the SE corner of Section 11, the Bird-Corman 11-16 and the Bird-Corman 11-16X were P and Aed in July of 1986. The Bird-Dietrich 13-3 in the NW corner of Section 13 was P and Aed in July of 1986. The Bird-Hughson 14-8 in the NE corner of Section of Section 14 was junked and abandoned in June of 1988. There are no well sites in the SW corner of Section 12.

See Exhibits A and B1 and B2 - Next Three Pages

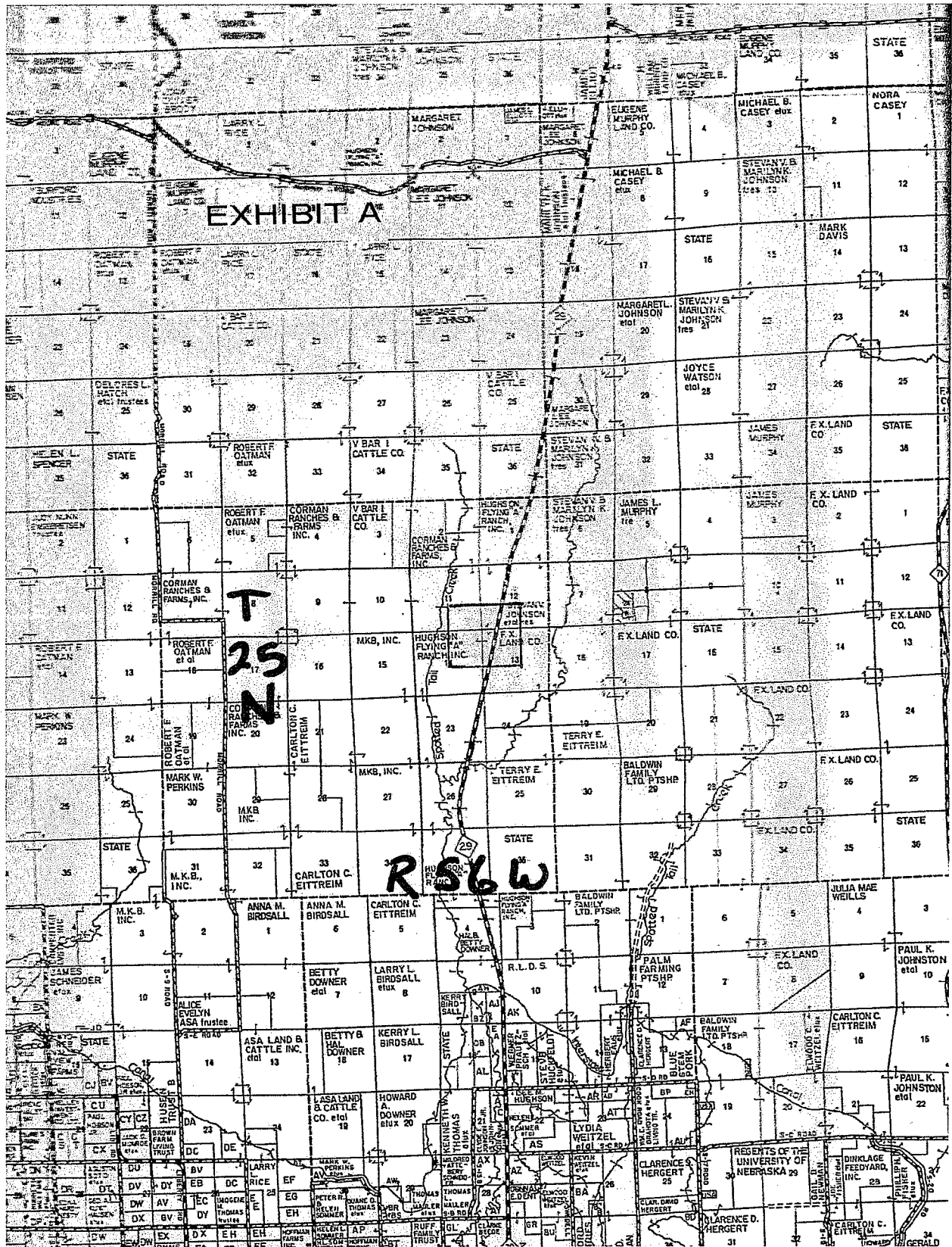
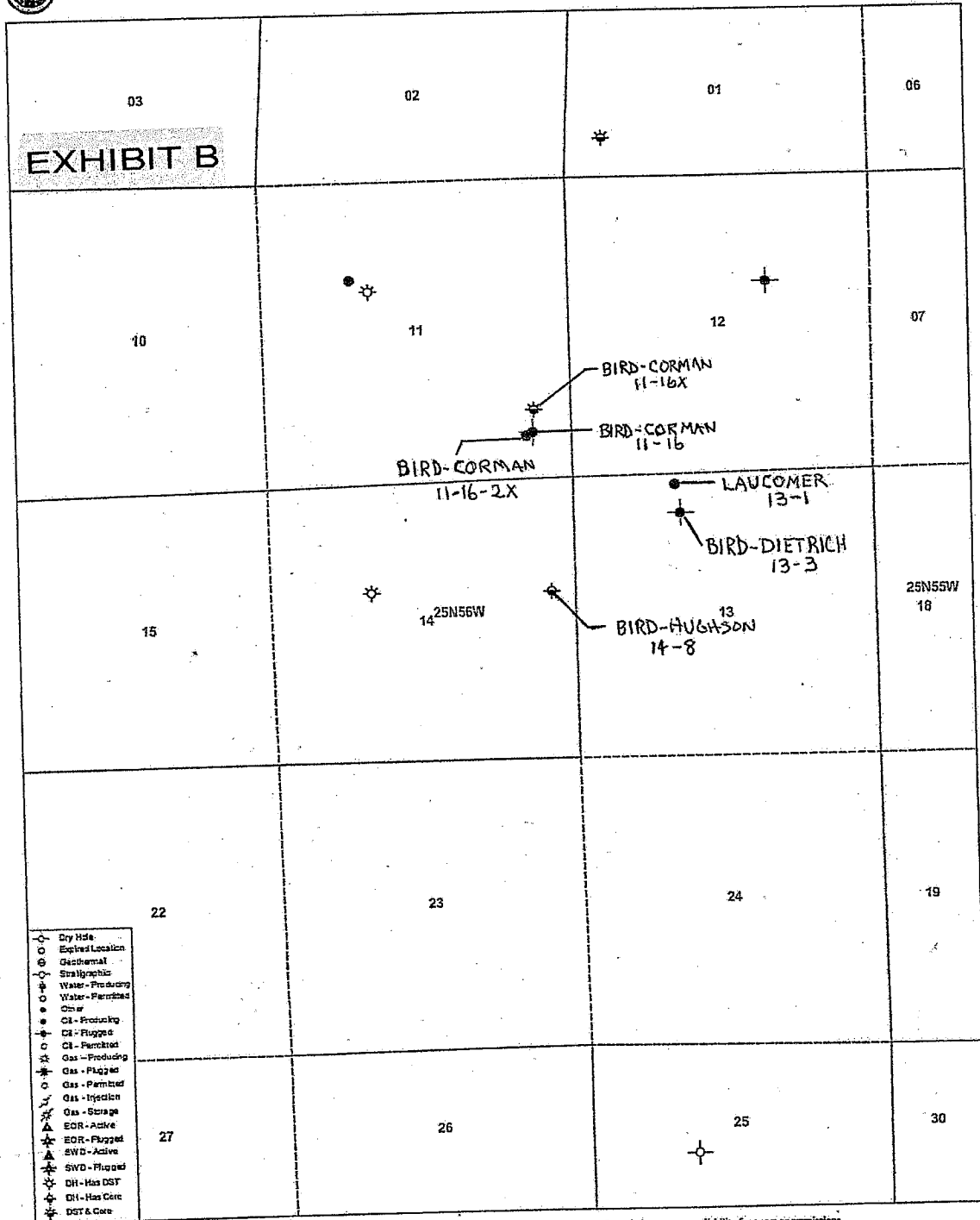


EXHIBIT A

**T
25
N**

**R
26
W**



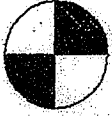
Every effort has been made to ensure the accuracy of this map. The Nebraska Oil and Gas Conservation Commission assumes no liability for errors or omissions.

EXHIBIT B

FORM PS 102B

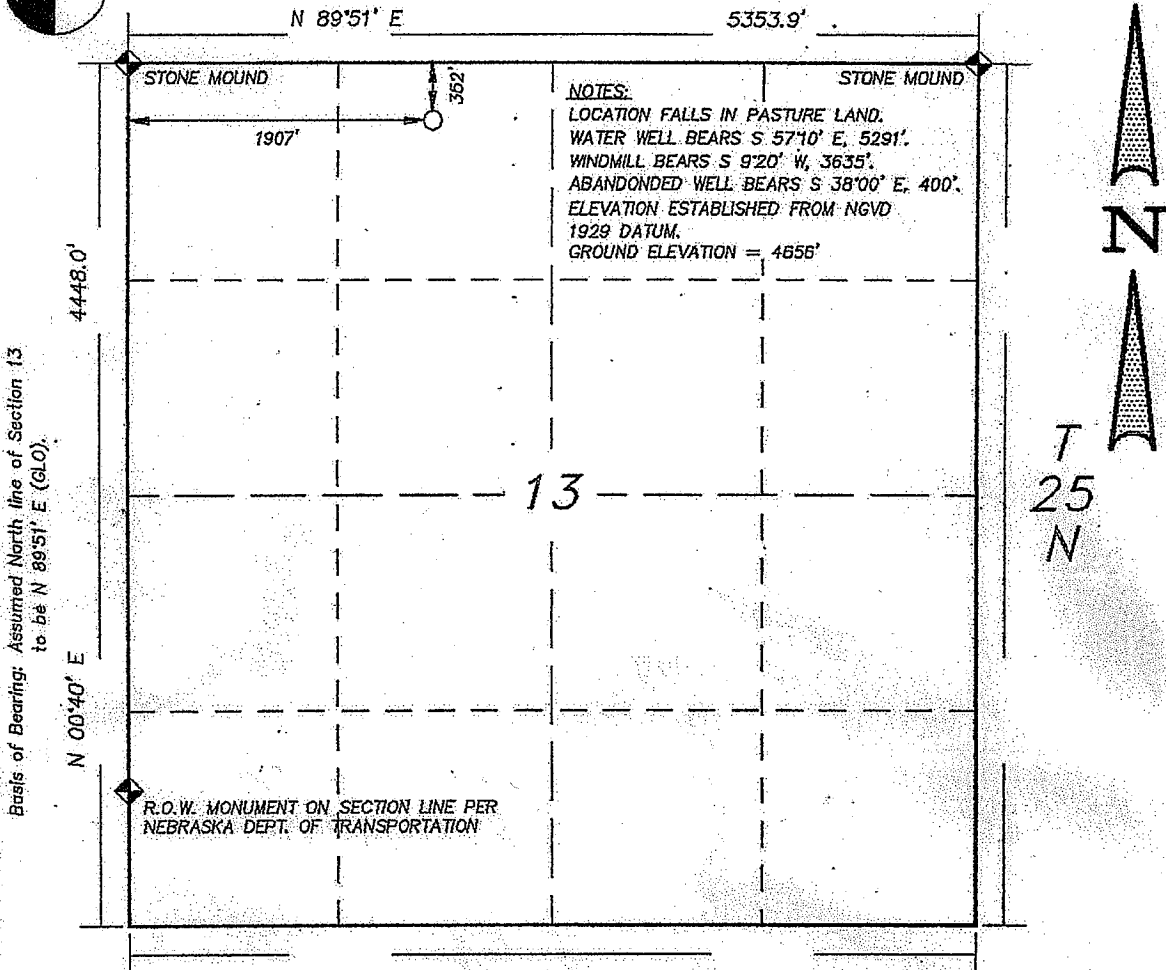
POWERS ELEVATION CO., INC.
 P.O. Box 440889
 Aurora, CO 80044
 (303)321-2217

ALL POWERS ELEVATION CO., INC.
 elevations originate from
 accepted U.S. Benchmarks.



R56W

(ACTUAL)



Basis of Bearing: Assumed North line of Section 13
 to be N 89°51' E (CLO).



SCALE IN FEET

B. NAMES AND ADDRESSES OF AFFECTED OWNERS

1. Surface and Mineral Owners - T25N – R56W

Owner North of Site: SW/4 Sec. 12 E of Hwy 29 and SE/4 Sec. 12

Stevan V. Johnson Revocable Trust
1911 Highway 29
Mitchell, NE 69357

Marilyn K. Johnson Revocable Trust
1911 Highway 29
Mitchell, NE 69357 Ph. 308-632-8484

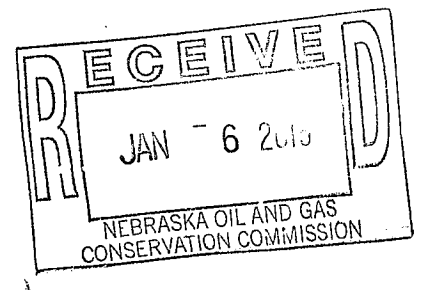
Owner West of Site: NE/4 Sec. 14– NW/4 Sec. 13 W of Hwy 29

Hughson Flying "A" Ranch, Inc.
c/o Lee M. Hughson, President
2205 Hwy. 29
Mitchell, NE 69346

**Owners Northwest of Site: SE/4 Sec. 11 – SW/4 Sec.12 W of Hwy
29**

Sioux Ranch, Inc.
PO Box 709
Morril, NE 69358

Corman Ranch and Farms
Phil V. Corman
10399 Rd. 82
Bridgeport, NE 69336-2685 Ph. 308-262-4765



Ross & Shannon Corman
6634 Rd. 101
Dalton, NE 69131 Ph. 308-262-0890

Owner to East and South of Site: Sec. 13 E of Hwy 29

FX Land Company
David Laucomer
Box 166,
Scotts Bluff, NE 69363

2. Oil and Gas Leasehold

Section 11: SE/4 – SW/4 Sec. 12 W of Hwy 29
LF Cottonwood, LLC
1301 McKinney, Suite 3150
Houston, TX 77010

Section 12: SW/4 E of Hwy 29
Whitmar Exploration Company
555 17th Street, Suite 880
Denver Co 80209

Section 13: Sec. 13 E of Hwy 29
Robert T. Birdsong
2552 East Alameda #50
Denver, CO 80209 Ph. 303-378-4942

Section 14: NE/4 – Sec 13 NW/4 W of Hwy 29
LF Cottonwood, LLC
1301 McKinney, Suite 3150
Houston, TX 77010

3. **Bird-Corman 11-16-2X** (SE/4 of Section 11, T25N-R56W)

Net Revenue Interests

Allen Heim
411 S. Myrtle
Kimball, NE 69145

Working Interest
Overriding Royalty Interest

M. C. Heim
PO Box 230028
Anchorage, AK 99523-0028

Working Interest

Sunburst, Inc.
and/or Walter P. Jackson
1401 E. Girard # 143
Englewood, CO 80113

Overriding Royalty Interest

AA Oil & Gas Corp.
411 S. Myrtle
Kimball, NE 69145

Overriding Royalty Interest

Phillip V. Corman
10399 RD 82
Bridgeport, NE 69336

Royalty Interest

Bruce A. Corman
PO Box 520
Burlington, CO 80807

Royalty Interest

Ross A. Corman
6634 Rd. 101
Dalton, NE 69131

Royalty Interest

Jane A. Grove
PO Box 709
Morrill, NE 69358

Royalty Interest

Phil Corman
10399 Rd. 82
Bridgeport, NE 69336-2685
308-262-4765

Royalty Interest

Jacquelyn Meissner
7080 S. Filmore CT.
Centennial, CO 80122

Overriding Royalty Interest

Fred F. Meissner Estate
C/O Jacquelyn Meissner,
Personal Representative
7080 S. Filmore CT.
Centennial, CO 80122

Overriding Royalty Interest

4. Right of Way Owner (Both Sides of Hwy 29)

Nebraska Department of Roads
District 5
PO Box 220
Gering, NE 69341
Attention: Don Hull

B. NAMES AND ADDRESSES OF AFFECTED OWNERS

1. Land Owners - T25N – R56W

Owner North of Site: SW/4 Sec. 12 E of Hwy 29

Stevan V. Johnson Revocable Trust
1911 Highway 29
Mitchell, NE 69357

Marilyn K. Johnson Revocable Trust
1911 Highway 29
Mitchell, NE 69357 Ph. 308-632-8484

Owner West of Site: NE/4 Sec. 14– NW/4 Sec. 13 W of Hwy 29

Hughson Flying "A" Ranch
Jenny M. Hughson, Dir. Etal
2205 Hwy. 29
Mitchell, NE 69346

Owners Northwest of Site: SE/4 Sec. 11 – SW/4 Sec.12 E of Hwy 29

Sioux Ranch, Inc.
PO Box 709
Morril, NE 69358

Corman Ranch and Farms
Phil V. Corman
10399 Rd. 82
Bridgeport, NE 69336-2685 Ph. 308-262-4765

Ross & Shannon Corman
6634 Rd. 101
Dalton, NE 69131 Ph. 308-262-0890

Owner to East and South of Site: Sec. 13 E of Hwy 29

FX Land Company
David Loucomer
Box 166,
Scotts Bluff, NE 69363

2. Mineral Owners

Section 11: SE/4 – SW/4 Sec. 12 W of Hwy 29
LF Cottonwood, LLC
1301 McKinney, Suite 3150
Houston, TX 77010

Section 12: SW/4 E of Hwy 29
Whitmore Exploration Company
555 17th Street, Suite 880
Denver Co 80209

Section 13: Sec. 13 E of Hwy 29
Robert T. Birdsong
2552 East Alameda #50
Denver, CO 80209 Ph. 303-378-4942

Section 14: NE/4 – Sec 13 NW/4 W of Hwy 29
LF Cottonwood, LLC
1301 McKinney, Suite 3150
Houston, TX 77010

3. Royalty Interest Owners

Bird-Corman 11-16-2X

Allen Heim
411 S. Myrtle
Kimball, NE 69145

M. C. Heim
PO Box 230028
Anchorage, AK 99523-0028

Sunburst, Inc.
and/or Walter P. Jackson
1401 E. Girard # 143
Englewood, CO 80113

AA Oil & Gas Corp.
411 S. Myrtle
Kimball, NE 69145

Phillip V. Corman
10399 RD 82
Bridgeport, NE 69336

Bruce Corman
PO Box 520
Burlington, CO 80807

Ross A. Corman
6634 Rd. 101
Dalton, NE 69131

Jane A. Grove
PO Box 709
Morrill, NE 69358

Phil Corman
10399 Rd. 82
Bridgeport, NE 69336-2685
308-262-4765

Jacquelyn Meissner
7080 S. Filmore CT.
Centennial, CO 80122

Fred F. Meissner Estate
C/O Jacquelyn Meissner
7080 S. Filmore CT.
Centennial, CO 80122

4. Right of Way Owner (Both Sides of Hwy 29)

Nebraska Department of Roads
District 5
PO Box 220
Gering, NE 69341
Attention: Don Hull

C. DESCRIPTION OF OPERATION

Terex Energy Corp. proposes converting the non-producing Laucomer 13-1 oil well located in Sioux County at 25N / 56W in the NE NW corner of Section 13, about 14 miles north of Mitchell, NE, into a commercial saltwater disposal well. The approximately 11 acres site will be fully fenced and gated.

Terex expects to operate 24 hours a day, seven days a week. We expect to take produced water from Nebraska, Wyoming and Colorado and could be accepting water from the Silo Field, the Wattenberg Fields and many other operations in the area in need of disposal facilities.

The 'produced' water is to be filtered and run through separators to remove solids and any oil cut prior to injection. We expect to inject into the Sundance Sands and/or the Spearfish Sands. We expect to have an initial capacity of up to 10,000 bpd.

Terex expects to average up to 80 trucks per day with 130 bbls per truck when operating at initial full capacity. The unit will likely have 4 to 6 lanes to accommodate the trucks in a timely manner. We expect to create 10 to 15 jobs from in and around Mitchell and Harrison, NE.

As discussed with Stan Belieu, Deputy Director COGCC, final approval/issuance of the permit is subject to water samples taken from both the Sundance Sands and Spearfish Sands during the upcoming pressure tests passing suitability standards for disposal wells as set forth by the Nebraska Oil and Gas Conservation Commission.

D. OPERATOR INFORMATION

The operator of the proposed injection well is to be:

Terex Energy Corp
520 Zang Street, Suite 250
Broomfield, Co 80021
Office 720-502-4483
Fax 720-302-0749

The primary contacts in the company are: Don Walford, CEO; Allen Heim, VP Operations; Martin Gottlob, Geology; Emil Magovac, Field Operations.

E. COPY OF COMPLETION REPORTS AND LOGS

See Exhibits C, D and E – Next Three Pages

EXHIBIT C WELL COMPLETION OR RE-COMPLETION REPORT

Instructions: Within thirty days following the completion or re-completion of any well, the owner or operator shall submit this form in duplicate for wells on patented or Federal lands, and in triplicate for wells on State lands. Geological information will be held confidential for a period of twelve months if requested in writing. If multiple completion, submit separate report for each completion.

DESIGNATE TYPE OF COMPLETION

New Well Work-Over Deepen Plug Back Same Reservoir
 Different Reservoir Oil Gas Injection

DESCRIPTION OF WELL AND LEASE

Operator: **Inter Mountain Oil Company, Inc.**
 Address: **17299 Cross Winds Rd. Livonia MI 48152**
 Well No: **13-1** Lease Name: **LAUCOMER 85850** Field and Reservoir (If wildcat, so state): **Spotted-tail Creek Corman Dolomite**
 Location: **NE NW Sec. 13 Twp. 25N Range 56W County Sioux**
 Footage Location: **352** feet from (N) (S) line, **1907** feet from (E) (W) line, of **NW 1/4**
 Spud Date: **10/17/98** Date reached T.D.: **12/22/98** Date Completed: _____ Elevation: **4656** Reference (indicate) (KB), (GL), (DF)
 Total Depth: **12550** P.B.T.D.: **9153 RP** Single or multiple completion: **Single** Was well directionally drilled? **Yes**
 Producing interval(s) for this completion: **7904 - 9153** Type of logs run in well _____
 Rotary tools used (Interval) _____ Cable tools used (Interval) _____ Principal Contractor: **Ashby**



CASING RECORD

Report all strings set—surface, intermediate, production, etc.

Purpose of String	Size hole drilled	Size casing set (in. O.D.)	Weight lbs/ft.	Setting Depth	Socks Cement
Surface	13 1/2	10 3/4	40.5 #	603	385 SKS
Intermediate	8 3/4	7	26 #	7904	2025 SKS

LINER RECORD			PERFORATION RECORD		
Top, ft.	Bottom, ft.	Socks Cement	Shots per Ft.	Size & Type	Depth Interval
			OPEN HOLE	7904 TO	12550
TUBING RECORD					
Size	Setting Depth	Packer set at			
2 7/8	7308	9153 PIP			

ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD

Amount and Kind of Material Used	Depth Interval Treated
N/A	

INITIAL PRODUCTION

Date of first production: **May 3, 2001** Producing method (flowing, pumping, gas lift, etc.): **PUMPING**

RATE OF PRODUCTION PER 24 HOURS: Oil **25** bbls. Gas **NR** MCF Water **NR** bbls. Gas-oil ratio **NR** CFPB

Disposition of gas (vented, used on lease or sold): **USED ON LEASE** Oil Purchaser: **EQUIVA Trading**

I/We hereby swear or affirm that the statements herein made are complete and correct.

[Signature]
 Signature: _____ Title: **President**
 Date: **05-14-2001**

(If new well, complete well log on reverse side of form)

WATER DISPOSAL WELL / INJECTION ZONES EXHIBIT D

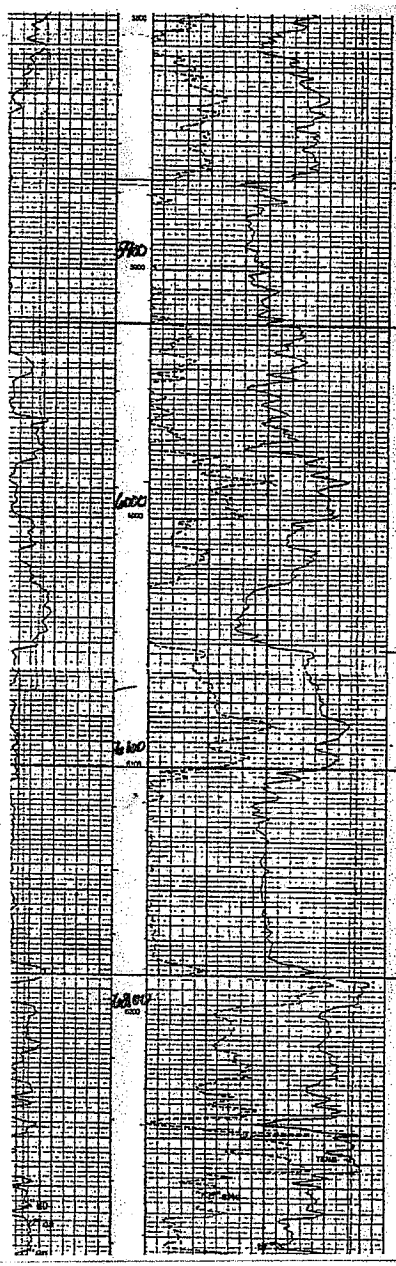
COMPANY: BURLINGTON RESOURCES OIL & GAS COMPANY
WELL: BIRD 21-13H
FIELD: WILDCAT
COUNTY: SIOUX STATE: NEBRASKA

BIRD 21-13H
 NENEW Sec. 13
 T25N-R56W
 KB 4661
 GL-4644
 10' cut

Schlumberger		BOREHOLE COMPENSATED SONIC	
NE NW 513 T25N R56W 1750 FWL & 420' NI	Elev. KE		F
Permanent Datum: GROUND LEVEL	Elev.	8546 F	
Log Measured From: KELLY BUSHING	+5.0 F		above Perm. Datum
Drilling Measured From: KELLY BUSHING			
AP Serial No. 26-165-21154	SECTION 3	TOWNSHIP 25N	RANGE 56W

Logging Date	24-NOV-1998			Log	
Run Number	ONE			Run	
Depth Driller	7279 F			Dep	
Schlumberger	6385 F			Scr	
Bottom Log Interval	6345 F			Bot	
Top Log Interval	604 F			Top	
Casing Driller Size (in. Depth)	10 7/8 IN	40	503 F	Cas	
Casing Schlumberger	604 F			Cas	
Bit Size	9.875 IN			Bit	
Type Fluid In. Hole	INVERTED OIL MUD			Type	
Density	Viscosity	11.9 LB/G	47 S	Den	
Fluid Loss	PPH	0.6 CC		Fl	
Source Of Sample				So	
RM (in) Measured Temperature				RM	
RMF (in) Measured Temperature				RM	
RMC (in) Measured Temperature				RM	
Source RMF	RMC			RM	
RM (in) MRT	RMF (in) MRT	187	187	RM	
Maximum Recorded Temperature	187 DEGF			Ma	
Circulation Stopped	Time	24-NOV-1998	3:00	Circ	
Logger On Bottom	Time	24-NOV-1998		Log	
Unit Number	Location	8220 FORT MORGAN			Uni
Recorded By	DAN OWENS			Rec	
Witnessed By	JIM REEDER			Win	

352' FNL } SFC
 1907' PWL } 100



BURLINGTON RESOURCES OIL COMPANY
 BIRD 21-13H

NE NW SEC. 13

T25N-R56W

5866
 SUNDANCE
 58'
 5922

POTENTIAL
 INJECTION
 ZONE
 352 FWL
 1907 FWL

EXHIBIT E

SPEARFISH

6100
 84'
 6184

POTENTIAL
 INJECTION
 ZONE

7" casing to depth of 7,924.95'
 per casing report # 2
 10-17-98

F. SCHEMATIC DIAGRAM OF WELL

1. T.D./ 2. Depth of Injection Disposal Interval / 3. Geological Names /
4. Geological Description

See Attachment F – Next Page

5. Depths Tops/Bottoms Casing and Cement Info

The Surface hole is 13 ½ “, using 10 ¾ 40.4 PPFT, J55 casing set @ 603’. It was cemented with 360 sacks “G” cement with 2% CaC12 and ¼ # / sack cellophane. Yield 1:18 mixed @ 15.2 PPG, topped off with 25 sacks “G” cement with 2% CaC12, and ¼ # / sack cellophane.

The intermediate casing is a 9 7/8” hole:

7” LTC 23# PFT J55	5708.99’
7” LTC 23# PFT S95	217.62’
7” LTC 29# PFT S95	1477.09’
7” LTC 23# PFT S95	474.28’
7” FLOAT COLLAR	1.87’
7” LTC 23# PFT S95	45.10’
7” FLOAT SHOE	2.00’
LANDED @ 7926.95’ TMD	

The lead was cemented with 1275 sack High Bond 75: Yield 1.95 @ 12 PPG. The middle was cemented with 500 sacks 50/50 POZ: Yield 1.33 @ 14.2 PPG. The tail was cemented with 250 sacks “G”: Yield 1.18 @ 15.6 PPG. One-hundred BBL of cement circulated to the surface.

6. Size and Specs Casing & Tubing / Setting Depths & Types of Packers

For size and specs of existing casing and tubing, see #5 above. Tubing will be replaced with corrosion resistant coated tubing. A retrievable packer will be set no more than 100’ from top of the highest perms in the Sundance Sands at about 5966’. A cast-iron bridge plug will be set about 100’ below the lowest perms in the Spearfish Sands at about 6284’.

Schematic Diagram

EXHIBIT F

Bird 21-13H
(Laucomer 13-1)

NENW Sec. 13
T25N-R56W

(F4)

Sample Description

Sandstone, light tan - tan, partially consolidated-frable, unconsolidated, Med-course grained, subrounded - round, clayey-slightly calcareous cement, fair sorting, slight frosted trace bentonite.

Sonic porosity = 12-15%

No known fault zones detected

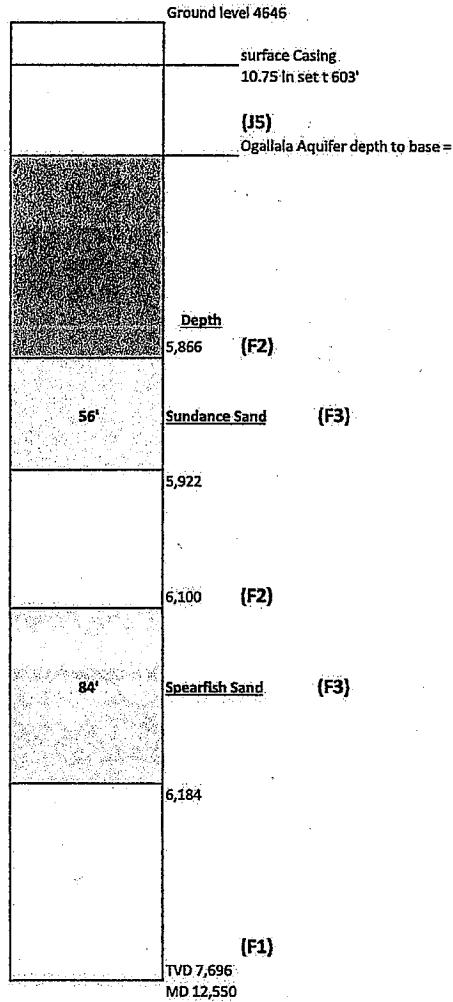
(F4)

Sample Description

sandstone, light-med grey, partly consolidated, subrounded, Predominately clay cement, some calcite cement, fine-very fine, trace reworked shale fragments,

Sonic porosity = 10-12%

No known fault zones detected



G. WATER ZONE INFORMATION

The higher proposed injection zone, The Sundance Sand, is immediately overlain by 30' of hard sand, with 5% or less sonic porosity. The tight sand is immediately overlain by 76' of impermeable shale. Both of these zones represent a substantial and impenetrable barrier and are thick enough to deter any fracturing that would allow injected fluids to pass through.

H. UNPLUGGED WELL INFORMATION

There are no producing or unplugged wells within ½ mile radius of the proposed disposal well. The closest producing well is the Bird-Corman 11-16-2X in the SESE Sec. 11 T25N – R56W. It is approximately 2806 ft. NW of the proposed disposal well. It is completed and perforated in the Virgil Zone at depths of 7619-24 and 7636-44, being over 1400 ft. above our zones of injection. Any communication between this well and the proposed water disposal well is not anticipated.

I. FRACTURE PRESSURES

We estimate the injection pressures in the injection zone to be at a maximum of 0.7 psi per foot depth, which would be below the frac gradient. We will report a more accurate calculation when we establish an injection rate.

J. OPERATING DATA

1. Maximum Rates and Pressures

We desire to operate at maximum allowable pressures, but below the frac gradient.

2. Source of Fluids

We expect trucks to deliver produced water from Nebraska, Wyoming and Colorado. There are many wells in those areas in need of disposal and we will receive waters from primarily Silo, but will also likely receive water from the Wattenberg, and other producers in these areas.

3. Produced Water Sample Analysis

We acquired recent representative water analysis's of produced water from six EOG Resources wells from the Silo Field north of Cheyenne, WY., from a water hauling company. See Exhibit G – Next 12 Pages



**Gas Measurement • Emissions Testing
Laboratory • Sample Collection**

Phone: (307)-856-0866 • Toll Free: (866)-985-0866

Laboratory Analytical Report

Customer Name: EOG - DJ Basin
Project ID: EOG-Colorado CWA

Order ID: 14080717
Report Date: 8/12/2014

Lab Sample ID: 14080717-01 Date: Time:
Customer Sample ID: JUBILEE 5-53 Collection: 7/31/2014 2:30 PM
Matrix: Aqueous Received: 8/7/2014 2:23 PM

Notes:

Analyses	Result	Units	RL	Qual.	Method	Analysis Date/Time	Analyst
Alkalinity, Bicarbonate (HCO ₃)	1000.0	mg/L	2		SM 2320 B	8/12/2014 7:46:00 AM	GW
Alkalinity, Carbonate (CO ₃)	ND	mg/L	2		SM 2320 B	8/12/2014 7:46:00 AM	GW
Alkalinity, Hydroxide (OH)	ND	mg/L	2		SM 2320 B	8/12/2014 7:46:00 AM	GW
Total Alkalinity	1000.0	mg/L	2		SM 2320 B	8/12/2014 7:46:00 AM	GW
Barium	ND	mg/L	5		EPA 200.7	8/12/2014 11:11:24 AM	NW
Calcium	110	mg/L	5		EPA 200.7	8/12/2014 11:11:24 AM	NW
Calcium (meq/L)	5.5	meq/L	0		EPA 200.7	8/12/2014 11:11:24 AM	NW
Calcium as CaCO ₃	280	mg/L	2.5		EPA 200.7	8/12/2014 11:11:24 AM	NW
Anions	244.3	meq/L	-50		Calculation	8/12/2014 12:07:00 PM	PR
Cation/Anion Balance	2.9	%	-50		Calculation	8/12/2014 12:07:00 PM	PR
Cations	259	meq/L	-50		Calculation	8/12/2014 12:07:00 PM	PR
Chloride	7928	mg/L	1000		EPA 300.0	8/11/2014 3:18:00 PM	TMC
Chloride as NaCl	13070	mg/L	1.6		EPA 300.0	8/11/2014 3:18:00 PM	TMC
Ionic Strength	0.3	mol/L	0		Calculation	8/12/2014 12:07:00 PM	PR
Iron	ND	mg/L	5		EPA 200.7	8/12/2014 11:11:24 AM	NW
Magnesium	ND	mg/L	5		EPA 200.7	8/12/2014 11:11:24 AM	NW
Magnesium (meq/L)	0.0	meq/L	0		EPA 200.7	8/12/2014 11:11:24 AM	NW
pH	6.98	s.u.	0.01		EPA 150.1	8/11/2014 3:55:00 PM	GW
Potassium	10	mg/L	5		EPA 200.7	8/12/2014 11:11:24 AM	NW
Potassium (meq/L)	0.3	meq/L	0		EPA 200.7	8/12/2014 11:11:24 AM	NW
Resistivity, 25C	0.42	ohms m	0.01		SM 2510 B	8/11/2014 4:06:00 PM	GW
Sodium	5800	mg/L	500		EPA 200.7	8/12/2014 11:00:24 AM	NW
Sodium (meq/L)	253	meq/L	0		EPA 200.7	8/12/2014 11:00:24 AM	NW
Specific Gravity	1.013	g/cc	0.001		ASTM D 1429-03	8/11/2014 4:05:00 PM	GW

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D-Diluted out of recovery limits

RL-Analyte Reporting Limit

J-Analyte detected below quantitation limits

L-Analyzed by a contract laboratory

H-Holding times for preparation or analysis exceeded

M-Matrix Effect

Documentation will be kept for five (5) years.



Gas Measurement • Emissions Testing

Laboratory • Sample Collection

Phone: (307)-856-0866 • Toll Free: (866)-985-0866

Laboratory Analytical Report

Customer Name: EOG - DJ Basin Order ID: 14080717
Project ID: EOG-Colorado CWA Report Date: 8/12/2014

Table with 7 columns: Parameter, Value, Unit, Multiplier, Method, Date/Time, and Initials. Rows include Strontium, Sulfate, Temperature (Thermometric), Total Dissolved Solids (TDS), and Total Solids (TS).

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Gas Measurement • Emissions Testing

Laboratory • Sample Collection

Phone: (307)-856-0866 • Toll Free: (866)-985-0866

Laboratory Analytical Report

Customer Name: EOG - DJ Basin Order ID: 14060605
 Project ID: EOG-Colorado CWA Report Date: 6/18/2014

Lab Sample ID: 14060605-08 Date: 6/2/2014 12:25 PM
 Customer Sample ID: Windy 504-1806H Collection: 6/2/2014 12:25 PM
 Matrix: Aqueous Received: 6/6/2014 9:01 AM

Notes:

Analyses	Result	Units	RL	Qual	Method	Analysis Date/Time	Analyst
Alkalinity, Bicarbonate (HCO ₃)	500.0	mg/L	2		SM 2320 B	6/13/2014 7:57:00 AM	GW
Alkalinity, Carbonate (CO ₃)	ND	mg/L	2		SM 2320 B	6/13/2014 7:57:00 AM	GW
Alkalinity, Hydroxide (OH)	ND	mg/L	2		SM 2320 B	6/13/2014 7:57:00 AM	GW
Total Alkalinity	500.0	mg/L	2		SM 2320 B	6/13/2014 7:57:00 AM	GW
Barium	50.8	mg/L	5		EPA 200.7	6/10/2014 9:51:31 PM	CV
Calcium	720	mg/L	5		EPA 200.7	6/10/2014 9:51:31 PM	CV
Calcium (meq/L)	35.9	meq/L	0		EPA 200.7	6/10/2014 9:51:31 PM	CV
Calcium as CaCO ₃	1800	mg/L	2.5		EPA 200.7	6/10/2014 9:51:31 PM	CV
Anions	892.6	meq/L	-50		Calculation	6/18/2014 10:49:00 AM	AC
Cation/Anion Balance	-14.4	%	-50		Calculation	6/18/2014 10:49:00 AM	AC
Cations	668	meq/L	-50		Calculation	6/18/2014 10:49:00 AM	AC
Chloride	31190	mg/L	1000		EPA 300.0	6/11/2014 5:15:00 PM	TMC
Chloride as NaCl	51420	mg/L	1.6		EPA 300.0	6/11/2014 5:15:00 PM	TMC
Ionic Strength	0.8	mol/L	0		Calculation	6/18/2014 10:49:00 AM	AC
Iron	11.9	mg/L	5		EPA 200.7	6/10/2014 9:51:31 PM	CV
Magnesium	84	mg/L	5		EPA 200.7	6/10/2014 9:51:31 PM	CV
Magnesium (meq/L)	6.9	meq/L	0		EPA 200.7	6/10/2014 9:51:31 PM	CV
pH	6.19	s.u.	0.01		EPA 150.1	6/11/2014 2:48:00 PM	GW
Potassium	1500	mg/L	500		EPA 200.7	6/10/2014 6:39:57 PM	CV
Potassium (meq/L)	38.4	meq/L	0		EPA 200.7	6/10/2014 6:39:57 PM	CV
Resistivity, 25C	0.15	ohms m	0.01		SM 2510 B	6/11/2014 3:17:00 PM	GW
Sodium	14000	mg/L	500		EPA 200.7	6/10/2014 6:39:57 PM	CV
Sodium (meq/L)	587	meq/L	0		EPA 200.7	6/10/2014 6:39:57 PM	CV
Specific Gravity	1.033	g/cc	0.001		ASTM D 1429-03	6/10/2014 3:50:00 PM	GW

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Gas Measurement • Emissions Testing

Laboratory • Sample Collection

Phone: (307)-856-0866 • Toll Free: (866)-985-0866

Laboratory Analytical Report

Customer Name:	EOG - DJ Basin	Order ID:	14060605		
Project ID:	EOG-Colorado CWA	Report Date:	6/18/2014		
Strontium	140 mg/L	5	EPA 200.7	6/10/2014 9:51:31 PM	CV
Sulfate	227.0 mg/L	20	EPA 375.4	6/11/2014 10:15:00 AM	TMC
Sulfate (meq/L)	4.7 meq/L	0	EPA 375.4	6/11/2014 10:15:00 AM	TMC
Temperature (Thermometric)	23.2 °C	0.1	N/A	6/18/2014 10:49:00 AM	AC
Total Dissolved Solids (TDS)	47740 mg/L	5	Calculation	6/18/2014 10:49:00 AM	AC
Total Hardness as CaCO3	2150 mg/L	6.6	EPA 200.7	6/10/2014 9:51:31 PM	CV
Total Solids (TS)	45400 mg/L	1	SM 2540 B	6/13/2014 12:11:00 PM	KF

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Page 2 of 2



Gas Measurement • Emissions Testing

Laboratory • Sample Collection

Phone: (307)-856-0866 • Toll Free: (866)-985-0866

Laboratory Analytical Report

Customer Name: EOG - DJ Basin
 Project ID: EOG-Colorado CWA

Order ID: 14072216
 Report Date: 8/4/2014

Lab Sample ID: 14072216-01 Date: Time:
 Customer Sample ID: Jubilee 30-07H Collection: 7/17/2014 11:15 AM
 Matrix: Aqueous Received: 7/22/2014 2:31 PM

Notes:

Analyses	Result	Units	RL	Qual.	Method	Analysis Date/Time	Analyst
Alkalinity, Bicarbonate (HCO ₃)	650.0	mg/L	2		SM 2320 B	7/30/2014 2:31:00 PM	GW
Alkalinity, Carbonate (CO ₃)	ND	mg/L	2		SM 2320 B	7/30/2014 2:31:00 PM	GW
Alkalinity, Hydroxide (OH)	ND	mg/L	2		SM 2320 B	7/30/2014 2:31:00 PM	GW
Total Alkalinity	650.0	mg/L	2		SM 2320 B	7/30/2014 2:31:00 PM	GW
Barium	36.5	mg/L	5		EPA 200.7	7/30/2014 8:50:38 PM	CV
Calcium	620	mg/L	5		EPA 200.7	7/30/2014 8:50:38 PM	CV
Calcium (meq/L)	31.1	meq/L	0		EPA 200.7	7/30/2014 8:50:38 PM	CV
Calcium as CaCO ₃	1600	mg/L	2.5		EPA 200.7	7/30/2014 8:50:38 PM	CV
Anions	586.0	meq/L	-50		Calculation	8/4/2014 12:47:00 PM	AC
Cation/Anion Balance	5.7	%	-50		Calculation	8/4/2014 12:47:00 PM	AC
Cations	656	meq/L	-50		Calculation	8/4/2014 12:47:00 PM	AC
Chloride	20360	mg/L	1000		EPA 300.0	7/29/2014 9:58:00 PM	TMC
Chloride as NaCl	33560	mg/L	1.6		EPA 300.0	7/29/2014 9:58:00 PM	TMC
Ionic Strength	0.6	mol/L	0		Calculation	8/4/2014 12:47:00 PM	AC
Iron	12.8	mg/L	5		EPA 200.7	7/30/2014 8:50:38 PM	CV
Magnesium	24	mg/L	5		EPA 200.7	7/30/2014 8:50:38 PM	CV
Magnesium (meq/L)	2.0	meq/L	0		EPA 200.7	7/30/2014 8:50:38 PM	CV
pH	6.18	s.u.	0.01		EPA 150.1	7/25/2014 3:52:00 PM	GW
Potassium	51	mg/L	5		EPA 200.7	7/30/2014 8:50:38 PM	CV
Potassium (meq/L)	1.3	meq/L	0		EPA 200.7	7/30/2014 8:50:38 PM	CV
Resistivity, 25C	0.18	ohms m	0.01		SM 2510 B	7/30/2014 2:25:00 PM	GW
Sodium	14000	mg/L	500		EPA 200.7	7/30/2014 6:12:10 PM	CV
Sodium (meq/L)	622	meq/L	0		EPA 200.7	7/30/2014 6:12:10 PM	CV
Specific Gravity	1.029	g/cc	0.001		ASTM D 1429-03	7/30/2014 10:36:00 AM	GW

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Page 1 of 2



Gas Measurement • Emissions Testing

Laboratory • Sample Collection

Phone: (307)-856-0866 • Toll Free: (866)-985-0866

Laboratory Analytical Report

Customer Name:	EOG - DJ Basin	Order ID:	14072216		
Project ID:	EOG-Colorado CWA	Report Date:	8/4/2014		
Strontium	85.6 mg/L	5	EPA 200.7	7/30/2014 8:50:38 PM	CV
Sulfate	61.5 mg/L	20	EPA 375.4	7/29/2014 3:13:00 PM	TMC
Temperature (Thermometric)	24.6 °C	0.1	N/A	8/4/2014 12:47:00 PM	AC
Total Dissolved Solids (TDS)	36080 mg/L	5	Calculation	8/4/2014 12:47:00 PM	AC
Total Solids (TS)	40400 mg/L	1	SM 2540 B	7/30/2014 10:01:00 AM	KF

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Page 2 of 2



Gas Measurement • Emissions Testing

Laboratory • Sample Collection

Phone: (307)-856-0866 • Toll Free: (866)-985-0866

Laboratory Analytical Report

Customer Name: EOG - DJ Basin
Project ID:

Order ID: 14050208
Report Date: 5/13/2014

Lab Sample ID: 14050208-01 Date: Time
Customer Sample ID: Jubilee 586-1705H Collection: 4/25/2014 1:52 PM
Matrix: Aqueous Received: 5/2/2014 11:00 AM

Notes:

Analyses	Result	Units	RL	Qual.	Method	Analysis Date/Time	Analyst
Alkalinity, Bicarbonate (HCO ₃)	700.0	mg/L	2		SM 2320 B	5/12/2014 8:57:00 AM	GW
Alkalinity, Carbonate (CO ₃)	ND	mg/L	2		SM 2320 B	5/12/2014 8:57:00 AM	GW
Alkalinity, Hydroxide (OH)	ND	mg/L	2		SM 2320 B	5/12/2014 8:57:00 AM	GW
Total Alkalinity	700.0	mg/L	2		SM 2320 B	5/12/2014 8:57:00 AM	GW
Barium	44.0	mg/L	5		EPA 200.7	5/13/2014 11:00:03 AM	CV
Calcium	750	mg/L	5		EPA 200.7	5/13/2014 11:00:03 AM	CV
Calcium (meq/L)	37.4	meq/L	0		EPA 200.7	5/13/2014 11:00:03 AM	CV
Calcium as CaCO ₃	1900	mg/L	2.5		EPA 200.7	5/13/2014 11:00:03 AM	CV
Anions	1124	meq/L	-50		Calculation	5/12/2014 10:40:00 AM	JP
Cation/Anion Balance	-27.9	%	-50		Calculation	5/12/2014 10:40:00 AM	JP
Cations	634	meq/L	-50		Calculation	5/12/2014 10:40:00 AM	JP
Chloride	39400	mg/L	1000		EPA 300.0	5/5/2014 4:20:00 PM	TMC
Chloride as NaCl	64950	mg/L	1.6		EPA 300.0	5/5/2014 4:20:00 PM	TMC
Ionic Strength	0.9	mol/L	0		Calculation	5/12/2014 10:40:00 AM	JP
Iron	21.4	mg/L	5		EPA 200.7	5/13/2014 11:00:03 AM	CV
Magnesium	92	mg/L	5		EPA 200.7	5/13/2014 11:00:03 AM	CV
Magnesium (meq/L)	7.6	meq/L	0		EPA 200.7	5/13/2014 11:00:03 AM	CV
pH	7.06	s.u.	0.01		EPA 150.1	5/10/2014 11:26:00 AM	GW
Potassium	240	mg/L	5		EPA 200.7	5/13/2014 11:00:03 AM	CV
Potassium (meq/L)	6.1	meq/L	0		EPA 200.7	5/13/2014 11:00:03 AM	CV
Resistivity, 25C	0.18	ohms m	0.01		SM 2510 B	5/10/2014 11:39:00 AM	GW
Sodium	13000	mg/L	500		EPA 200.7	5/5/2014 1:17:10 PM	CV
Sodium (meq/L)	583	meq/L	0		EPA 200.7	5/5/2014 1:17:10 PM	CV
Specific Gravity	1.032	g/cc	0.001		ASTM D 1429-03	5/10/2012 11:23:00 AM	GW

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Gas Measurement • Emissions Testing

Laboratory • Sample Collection

Phone: (307)-856-0866 • Toll Free: (866)-985-0866

Laboratory Analytical Report

Customer Name: EOG - DJ Basin

Order ID: 14050208

Project ID:

Report Date: 5/13/2014

Strontium	116	mg/L	5	EPA 200.7	5/13/2014 11:00:03 AM	CV
Sulfate	88.8	mg/L	20	EPA 375.4	5/12/2014 1:10:00 PM	TMC
Temperature (Thermometric)	20.8	°C	0.1	N/A	5/13/2014 4:36:00 PM	AC
Total Dissolved Solids (TDS)	54690	mg/L	5	Calculation	5/12/2014 10:40:00 AM	JP
Total Hardness as CaCO3	2250	mg/L	6.6	EPA 200.7	5/13/2014 11:00:03 AM	CV
Total Solids (TS)	39100	mg/L	1	SM 2540 B	5/6/2014 12:00:00 PM	KF

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Page 2 of 2



**Gas Measurement • Emissions Testing
Laboratory • Sample Collection**

Phone: (307)-856-0866 • Toll Free: (866)-985-0866

Laboratory Analytical Report

Customer Name: EOG - DJ Basin Order ID: 14022617
Project ID: Jubilee 103-0433H Offsets Report Date: 3/6/2014

Lab Sample ID: 14022617-06 Date: Time:
Customer Sample ID: Jubilee 69-04H H2O Collection: 2/20/2014 1:30 PM
Matrix: Aqueous Received: 2/26/2014 1:43 PM

Notes:

Analyses	Result	Units	RL	Qual	Method	Analysis Date/Time	Analyst
Alkalinity, Bicarbonate (HCO ₃)	1500.00	mg/L	2		SM 2320 B	3/3/2014 12:49:00 PM	KB
Alkalinity, Carbonate (CO ₃)	ND	mg/L	2		SM 2320 B	3/3/2014 12:49:00 PM	KB
Alkalinity, Hydroxide (OH)	ND	mg/L	2		SM 2320 B	3/3/2014 12:49:00 PM	KB
Total Alkalinity	1500.0	mg/L	2		SM 2320 B	3/3/2014 12:49:00 PM	KB
Barium	64.20	mg/L	5		EPA 200.7	2/27/2014 8:39:32 PM	CV
Calcium	1100	mg/L	500		EPA 200.7	2/27/2014 5:22:56 PM	CV
Calcium (meq/L)	53.4	meq/L	0		EPA 200.7	2/27/2014 5:22:56 PM	CV
Calcium as CaCO ₃	2700	mg/L	2.5		EPA 200.7	2/27/2014 5:22:56 PM	CV
Anions	879.88	meq/L	-50		Calculation	3/6/2014 1:25:00 PM	AC
Cation/Anion Balance	7.56	%	-50		Calculation	3/6/2014 1:25:00 PM	AC
Cations	1023.67	meq/L	-50		Calculation	3/6/2014 1:25:00 PM	AC
Chloride	30000	mg/L	1000		EPA 300.0	2/28/2014 5:06:00 PM	TMC
Chloride as NaCl	50000.00	mg/L	1.6		EPA 300.0	2/28/2014 5:06:00 PM	TMC
Ionic Strength	0.990	mol/L	0		Calculation	3/6/2014 1:25:00 PM	AC
Iron	40	mg/L	5		EPA 200.7	2/27/2014 8:39:32 PM	CV
Magnesium	120	mg/L	5		EPA 200.7	2/27/2014 8:39:32 PM	CV
Magnesium (meq/L)	10.0	meq/L	0		EPA 200.7	2/27/2014 8:39:32 PM	CV
pH	6.39	s.u.	0.01		EPA 150.1	3/4/2014 10:01:00 AM	GW
Potassium	820	mg/L	5		EPA 200.7	2/27/2014 8:39:32 PM	CV
Potassium (meq/L)	21.0	meq/L	0		EPA 200.7	2/27/2014 8:39:32 PM	CV
Resistivity, 25C	0.12	ohms m	0.01		SM 2510 B	3/3/2014 3:45:00 PM	KF
Sodium	22000	mg/L	500		EPA 200.7	2/27/2014 5:22:56 PM	CV
Sodium (meq/L)	940	meq/L	0		EPA 200.7	2/27/2014 5:22:56 PM	CV
Specific Gravity	1.036	g/cc	0.001		ASTM D 1429-03	2/27/2014 12:52:00 PM	GW

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Gas Measurement • Emissions Testing

Laboratory • Sample Collection

Phone: (307)-856-0866 • Toll Free: (866)-985-0866

Laboratory Analytical Report

Customer Name:	EOG - DJ Basin	Order ID:	14022617		
Project ID:	Jubilee 103-0433H Offsets	Report Date:	3/6/2014		
Strontium	186.00 mg/L	5	EPA 200.7	2/27/2014 8:39:32 PM	CV
Sulfate	ND mg/L	2	EPA 375.4	2/28/2014 11:05:00 AM	TMC
Sulfate (meq/L)	ND meq/L	0	EPA 375.4	2/28/2014 11:05:00 AM	TMC
Temperature (Thermometric)	12.4 °C	0.1	N/A	3/6/2014 1:25:00 PM	AC
Total Dissolved Solids (TDS)	55000 mg/L	5	Calculation	3/6/2014 1:25:00 PM	AC
Total Hardness as CaCO3	3200 mg/L	6.6	EPA 200.7	2/27/2014 5:22:56 PM	CV
Total Solids (TS)	57000 mg/L	1	SM 2540 B	3/3/2014 3:20:00 PM	KF

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Page 2 of 2



Gas Measurement • Emissions Testing

Laboratory • Sample Collection

Phone: (307)-856-0866 • Toll Free: (866)-985-0866

Laboratory Analytical Report

Customer Name: EOG - DJ Basin Order ID: 14022617
 Project ID: Jubilee 103-0433H Offsets Report Date: 3/6/2014

Lab Sample ID: 14022617-04 Date: Time
 Customer Sample ID: Jubilee 103-0433H H2O Collection: 2/20/2014 1:15 PM
 Matrix: Aqueous Received: 2/26/2014 1:43 PM

Notes:

Analytes	Result	Units	RL	Qual.	Method	Analysis Date/Time	Analyst
Alkalinity, Bicarbonate (HCO3)	690.00	mg/L	2		SM 2320 B	3/3/2014 12:49:00 PM	KB
Alkalinity, Carbonate (CO3)	ND	mg/L	2		SM 2320 B	3/3/2014 12:49:00 PM	KB
Alkalinity, Hydroxide (OH)	ND	mg/L	2		SM 2320 B	3/3/2014 12:49:00 PM	KB
Total Alkalinity	690.0	mg/L	2		SM 2320 B	3/3/2014 12:49:00 PM	KB
Barium	69.50	mg/L	5		EPA 200.7	2/27/2014 8:12:17 PM	CV
Calcium	980	mg/L	5		EPA 200.7	2/27/2014 8:12:17 PM	CV
Calcium (meq/L)	48.8	meq/L	0		EPA 200.7	2/27/2014 8:12:17 PM	CV
Calcium as CaCO3	2400	mg/L	2.5		EPA 200.7	2/27/2014 8:12:17 PM	CV
Anions	840.10	meq/L	-50		Calculation	3/6/2014 1:25:00 PM	AC
Cation/Anion Balance	5.61	%	-50		Calculation	3/6/2014 1:25:00 PM	AC
Cations	939.98	meq/L	-50		Calculation	3/6/2014 1:25:00 PM	AC
Chloride	29000	mg/L	1000		EPA 300.0	2/28/2014 4:42:00 PM	TMC
Chloride as NaCl	48400.00	mg/L	1.6		EPA 300.0	2/28/2014 4:42:00 PM	TMC
Ionic Strength	0.925	mol/L	0		Calculation	3/6/2014 1:25:00 PM	AC
Iron	9	mg/L	5		EPA 200.7	2/27/2014 8:12:17 PM	CV
Magnesium	110	mg/L	5		EPA 200.7	2/27/2014 8:12:17 PM	CV
Magnesium (meq/L)	9.2	meq/L	0		EPA 200.7	2/27/2014 8:12:17 PM	CV
pH	6.68	s.u.	0.01		EPA 150.1	3/4/2014 10:01:00 AM	GW
Potassium	1200	mg/L	500		EPA 200.7	2/27/2014 5:17:26 PM	CV
Potassium (meq/L)	29.4	meq/L	0		EPA 200.7	2/27/2014 5:17:26 PM	CV
Resistivity, 25C	0.13	ohms m	0.01		SM 2510 B	3/3/2014 3:45:00 PM	KF
Sodium	20000	mg/L	500		EPA 200.7	2/27/2014 5:17:26 PM	CV
Sodium (meq/L)	853	meq/L	0		EPA 200.7	2/27/2014 5:17:26 PM	CV
Specific Gravity	1.034	g/cc	0.001		ASTM D 1429-03	2/27/2014 12:52:00 PM	GW

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Definitions:

ND-Not Detected at the reporting limit S-Spike Recovery outside accepted recovery limits D-Diluted out of recovery limits
 RL-Analyte Reporting Limit J-Analyte detected below quantitation limits L-Analyzed by a contract laboratory
 H-Holding times for preparation or analysis exceeded M-Matrix Effect

Documentation will be kept for five (5) years.



Gas Measurement • Emissions Testing

Laboratory • Sample Collection

Phone: (307)-856-0866 • Toll Free: (866)-985-0866

Laboratory Analytical Report

Customer Name:	EOG - DJ Basin	Order ID:	14022617		
Project ID:	Jubilee 103-0433H Offsets	Report Date:	3/6/2014		
Strontium	189.00 mg/L	5	EPA 200.7	2/27/2014 8:12:17 PM	CV
Sulfate	ND mg/L	2	EPA 375.4	2/28/2014 11:05:00 AM	TMC
Sulfate (meq/L)	ND meq/L	0	EPA 375.4	2/28/2014 11:05:00 AM	TMC
Temperature (Thermometric)	12.4 °C	0.1	N/A	3/6/2014 1:25:00 PM	AC
Total Dissolved Solids (TDS)	52000 mg/L	5	Calculation	3/6/2014 1:25:00 PM	AC
Total Hardness as CaCO3	2900 mg/L	6.6	EPA 200.7	2/27/2014 8:12:17 PM	CV
Total Solids (TS)	51000 mg/L	1	SM 2540.B	3/3/2014 3:20:00 PM	KF

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Definitions:

ND-Not Detected at the reporting limit

S-Spike Recovery outside accepted recovery limits

D-Diluted out of recovery limits

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Page 2 of 2

4. Fresh Water Analysis

There are two water wells within one mile of the proposed injection well. One well is virtually straight north at GPS coordinates 42 9' 24" N / 103 48' 26" W – about one half mile from the proposed operation. The other is about a half of a mile south at 42 8' 6" N / 103 48' 47" W. Allen Heim collected the water samples in lab supplied containers on October 7th at around 1:00pm. The first report is for the south well, and the second report is for the north well. The water was analyzed at Olsen's Agricultural Laboratory, Inc. See Results in Exhibit H – Next 3 Pages

Olsen's Agricultural Laboratory, Inc.

210 East 1st / PO Box 370 / McCook, Nebraska 69001
 Office: 308-345-3670 / FAX: 308-345-7880
 www.olsenlab.com



WATER SAMPLE REPORT

TEREX ENERGY
 520 ZANG ST SUITE 250
 BROOMFIELD CO 80021

Account Number: 20392

Date & Time Sampled: 10/07/2014 @ 1230
 Date & Time Received: 10/09/2014 @ 0000
 Date Reported: 10/15/2014

Name: WELL 1
 Sample ID: WINDMILL SOUTH OF LAUCOMER 13 1

Lab Number: 62629

Constituent Analyzed	Results	Drinking Water Guidelines * see comments on back *	Analytical Method
pH	8.1 s.u.	6.5 – 8.5	SM 4500 H B.
Electrical Conductivity	0.31 mmhos/cm	< 0.8	SM 2510 B
Total Dissolved Solids (calculated)	197 mg/L	< 500	SM 1030F
Carbonate	< 1 mg/L	N/A	SM 2320 B
Bicarbonate	195 mg/L	N/A	SM 2320 B
Alkalinity (as CaCO ₃)	160 mg/L	N/A	SM 2320 B
Calcium	32 mg/L	N/A	SM 3120 B
Magnesium	9 mg/L	N/A	SM 3120 B
Potassium	7 mg/L	N/A	SM 3120 B
Sodium	16 mg/L	N/A	SM 3120 B
Nitrate-N plus Nitrite-N *	3.97 mg/L	10 mg/L	Lachat 10-107-04-1-
Phosphorus (Total)	0.02 mg/L	N/A	SM 3120 B
Sulfur (Total)	5.30 mg/L	< 80	SM 3120 B
Chloride	4.00 mg/L	< 250	SM 4500 Cl E
Iron	0.56 mg/L	< 0.3	SM 3120 B
Manganese	0.03 mg/L	< 0.05	SM 3120 B
Zinc	0.13 mg/L	< 5.0	SM 3120 B
Copper	0.01 mg/L	1.3 mg/L	SM 3120 B
Boron	0.06 mg/L	N/A	SM 3120 B
Total Hardness (Ca+Mg) as CaCO ₃	6.83 grains/gallon	Moderate	SM 2340 B
Lime (as CaCO ₃)	433 lbs/acre-foot		SM 2340 B
SAR	0.6	L	FAO 29
SARadj	1.2		FAO 29
Salinity Hazard	LOW		FAO 29
Sodium Hazard, SAR	LOW		FAO 29
Sodium Hazard, SARadj	LOW		FAO 29

Sterile Bottle: YES

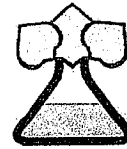
* Date & Time Analyzed: 10/15/2014 @ 1344

** Date & Time Started:

BY: _____

Olsen's Agricultural Laboratory, Inc.

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Office: 308-345-3670 / FAX: 308-345-7880
www.olsenlab.com



WATER SAMPLE REPORT

TEREX ENERGY
520 ZANG ST SUITE 250
BROOMFIELD CO 80021

Account Number: 20392

Date & Time Sampled: 10/07/2014 @ 1300
Date & Time Received: 10/09/2014 @ 0000
Date Reported: 10/15/2014

Name: WELL 2
Sample ID: WINDMILL NORTH OF LAUCOMER 13 1

Lab Number: 62630

Constituent Analyzed	Results	Drinking Water Guidelines * see comments on back *	Analytical Method
pH	8.2 s.u.	6.5 -- 8.5	SM 4500 H B.
Electrical Conductivity	0.21 mmhos/cm	< 0.8	SM 2510 B
Total Dissolved Solids (calculated)	137 mg/L	< 500	SM 1030F
Carbonate	< 1 mg/L	N/A	SM 2320 B
Bicarbonate	148 mg/L	N/A	SM 2320 B
Alkalinity (as CaCO ₃)	121 mg/L	N/A	SM 2320 B
Calcium	25 mg/L	N/A	SM 3120 B
Magnesium	7 mg/L	N/A	SM 3120 B
Potassium	5 mg/L	N/A	SM 3120 B
Sodium	11 mg/L	N/A	SM 3120 B
Nitrate-N plus Nitrite-N *	0.92 mg/L	10 mg/L	Lachat 10-107-04-1-
Phosphorus (Total)	0.03 mg/L	N/A	SM 3120 B
Sulfur (Total)	2.20 mg/L	< 80	SM 3120 B
Chloride	6.00 mg/L	< 250	SM 4500 Cl E
Iron	0.05 mg/L	< 0.3	SM 3120 B
Manganese	< 0.01 mg/L	< 0.05	SM 3120 B
Zinc	0.01 mg/L	< 5.0	SM 3120 B
Copper	< 0.01 mg/L	1.3 mg/L	SM 3120 B
Boron	< 0.01 mg/L	N/A	SM 3120 B
Total Hardness (Ca+Mg) as CaCO ₃	5.33 grains/gallon	Moderate	SM 2340 B
Lime (as CaCO ₃)	327 lbs/acre-foot		SM 2340 B
SAR	0.5	L	FAO 29
SARadj	0.8		FAO 29
Salinity Hazard	LOW		FAO 29
Sodium Hazard, SAR	LOW		FAO 29
Sodium Hazard, SARadj	LOW		FAO 29

Sterile Bottle: YES

* Date & Time Analyzed: 10/15/2014 @ 1344

** Date & Time Started:

BY: _____

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COMMENTS

Definitions:

mg/L = milligrams per liter
ug/L = micrograms per liter
ppm = parts per million (approximately the same as mg/L)
ppb = parts per billion (approximately the same as ug/L)
MCL = maximum contaminant level
MRDL = maximum residual disinfectant level
N/A = not available

Calculation:

mg/L x 2.7 = lbs/acre-foot

5. Fresh Water Zone Info

The Ogallala Aquifer is the fresh water source in this region. The surface casing for the Bird 21-13H was set at 603' when it was completed in 1989. The likely bottom of the aquifer is at least 50' above that at 550'.

6. Injection Zone Fresh Water Zone Separation

The top of the Sundance Sands is at 5866'. Separation from the bottom of The Ogallala Aquifer is approximately 5316'. The top of the deeper Spearfish Sands is 6100'. Separation is approximately 6550'.

K. CERTIFICATES OF MAILING

To be sent on date of mailing.