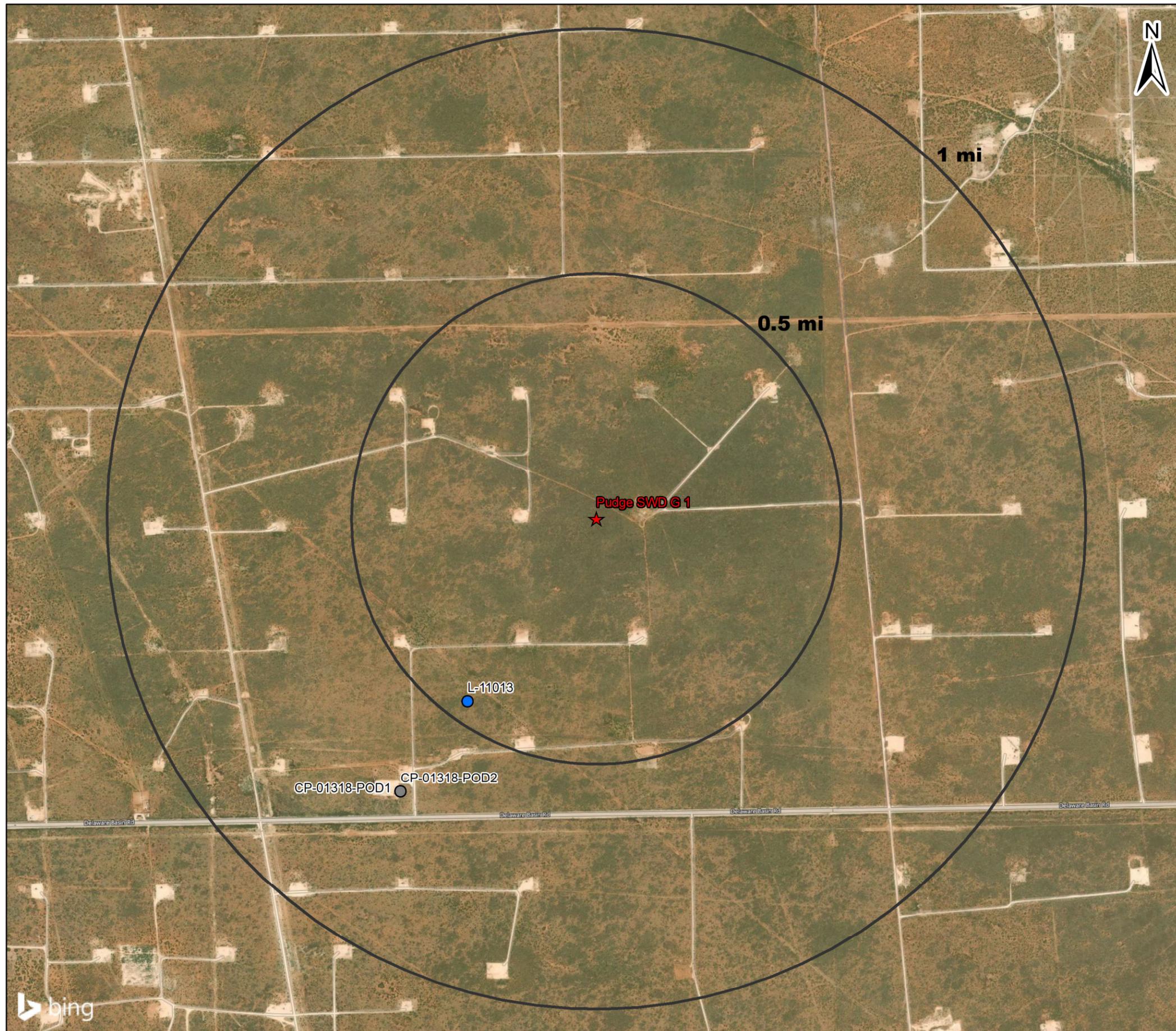


Application

Part *IV*

Attachment 5

Water Well Map and Well Data



Legend

★ Proposed SWD

NMOSE PODs

Status

● Active (2)

● Unknown (1)

Water Wells Area of Review

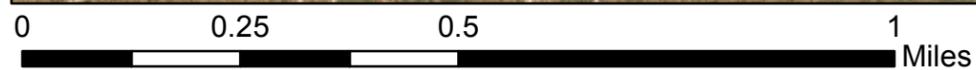
Pudge SWD G 1
LEA County, New Mexico

Proj Mgr:
Dan Arthur

May 28, 2019

Mapped by:
Ben Bockelmann

Prepared by:



Water Well Sampling Rationale						
Goodnight Midstream Permian, LLC - Pudge SWD G 1						
SWD	Water Wells	Owner	Available Contact Information	Use	Sampling Required	Notes
Pudge SWD G 1	CP-01318 POD 1	Dasco Cattle Co., LLC	Dasco Cattle Co., LLC Atlee Snyder Contact: 575-631-9438 & 575-391-0309	Commercial	Yes	Sampled on 6-12-2019. Results are shown below.
Pudge SWD G 1	CP-01318 POD 2	Dasco Cattle Co., LLC	Dasco Cattle Co., LLC Atlee Snyder Contact: 575-631-9438 & 575-391-0310	Commercial	Yes	Sampled on 6-12-2019. Results are shown below.
Pudge SWD G 1	L-11013	Dasco Cattle Co., LLC	Dasco Cattle Co., LLC Atlee Snyder Contact: 575-631-9438 & 575-391-0311	Livestock Watering/ Closed File	No	Transaction has been entered to close this file. This file is no longer in use. See file for CP-1318. Atlee Snyder was unaware of this well.

June 20, 2019

DAVID ALLEMAN
ALL CONSULTING, LLC
1718 S. CHEYENNE AVE.
TULSA, OK 74119

RE: DASCO CATTLE CO

Enclosed are the results of analyses for samples received by the laboratory on 06/13/19 8:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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

Sincerely,



Celey D. Keene
Lab Director/Quality Manager

Analytical Results For:ALL CONSULTING, LLC
1718 S. CHEYENNE AVE.
TULSA OK, 74119Project: DASCO CATTLE CO
Project Number: 32.400000 / - 103.259722
Project Manager: DAVID ALLEMAN
Fax To: NAReported:
20-Jun-19 09:31

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CP - 01318 - POD # 1	H902049-01	Water	12-Jun-19 16:07	13-Jun-19 08:15
CP - 01318 - POD # 2	H902049-02	Water	12-Jun-19 16:17	13-Jun-19 08:15

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 ALL CONSULTING, LLC
 1718 S. CHEYENNE AVE.
 TULSA OK, 74119

 Project: DASCO CATTLE CO
 Project Number: 32.400000 / - 103.259722
 Project Manager: DAVID ALLEMAN
 Fax To: NA

 Reported:
 20-Jun-19 09:31

CP - 01318 - POD # 1
H902049-01 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories
Inorganic Compounds

Alkalinity, Bicarbonate	234		5.00	mg/L	1	9061405	AC	14-Jun-19	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	9061405	AC	14-Jun-19	310.1	
Chloride*	16.0		4.00	mg/L	1	9061310	AC	18-Jun-19	4500-Cl-B	
Conductivity*	447		1.00	uS/cm	1	9061403	AC	14-Jun-19	120.1	
pH*	7.94		0.100	pH Units	1	9061403	AC	14-Jun-19	150.1	
Resistivity	22.4			Ohms/m	1	9061403	AC	14-Jun-19	120.1	
Sulfate*	40.6		10.0	mg/L	1	9061708	AC	17-Jun-19	375.4	
TDS*	346		5.00	mg/L	1	9061308	AC	14-Jun-19	160.1	
Alkalinity, Total*	192		4.00	mg/L	1	9061405	AC	14-Jun-19	310.1	
TSS*	<2.00		2.00	mg/L	1	9061207	AC	14-Jun-19	160.2	

Green Analytical Laboratories
Total Recoverable Metals by ICP (E200.7)

Barium*	<0.250		0.250	mg/L	5	B906147	AES	19-Jun-19	EPA200.7	
Calcium*	35.1		0.500	mg/L	5	B906147	AES	19-Jun-19	EPA200.7	
Hardness as CaCO3	135		3.31	mg/L	5	[CALC]	AES	19-Jun-19	2340 B	
Iron*	0.470		0.250	mg/L	5	B906147	AES	19-Jun-19	EPA200.7	
Magnesium*	11.6		0.500	mg/L	5	B906147	AES	19-Jun-19	EPA200.7	
Potassium*	<5.00		5.00	mg/L	5	B906147	AES	19-Jun-19	EPA200.7	
Sodium*	48.0		5.00	mg/L	5	B906147	AES	19-Jun-19	EPA200.7	
Strontium*	0.716		0.500	mg/L	5	B906147	AES	19-Jun-19	EPA200.7	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 ALL CONSULTING, LLC
 1718 S. CHEYENNE AVE.
 TULSA OK, 74119

 Project: DASCO CATTLE CO
 Project Number: 32.400000 / - 103.259722
 Project Manager: DAVID ALLEMAN
 Fax To: NA

 Reported:
 20-Jun-19 09:31

CP - 01318 - POD # 2
H902049-02 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Inorganic Compounds

Alkalinity, Bicarbonate	239		5.00	mg/L	1	9061405	AC	14-Jun-19	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	9061405	AC	14-Jun-19	310.1	
Chloride*	16.0		4.00	mg/L	1	9061310	AC	18-Jun-19	4500-Cl-B	
Conductivity*	449		1.00	uS/cm	1	9061403	AC	14-Jun-19	120.1	
pH*	7.94		0.100	pH Units	1	9061403	AC	14-Jun-19	150.1	
Resistivity	22.3			Ohms/m	1	9061403	AC	14-Jun-19	120.1	
Sulfate*	37.6		10.0	mg/L	1	9061708	AC	17-Jun-19	375.4	
TDS*	321		5.00	mg/L	1	9061308	AC	14-Jun-19	160.1	
Alkalinity, Total*	196		4.00	mg/L	1	9061405	AC	14-Jun-19	310.1	
TSS*	<2.00		2.00	mg/L	1	9061207	AC	14-Jun-19	160.2	

Green Analytical Laboratories
Total Recoverable Metals by ICP (E200.7)

Barium*	<0.250		0.250	mg/L	5	B906147	AES	19-Jun-19	EPA200.7	
Calcium*	38.5		0.500	mg/L	5	B906147	AES	19-Jun-19	EPA200.7	
Hardness as CaCO3	149		3.31	mg/L	5	[CALC]	AES	19-Jun-19	2340 B	
Iron*	0.355		0.250	mg/L	5	B906147	AES	19-Jun-19	EPA200.7	
Magnesium*	12.8		0.500	mg/L	5	B906147	AES	19-Jun-19	EPA200.7	
Potassium*	<5.00		5.00	mg/L	5	B906147	AES	19-Jun-19	EPA200.7	
Sodium*	52.4		5.00	mg/L	5	B906147	AES	19-Jun-19	EPA200.7	
Strontium*	0.789		0.500	mg/L	5	B906147	AES	19-Jun-19	EPA200.7	

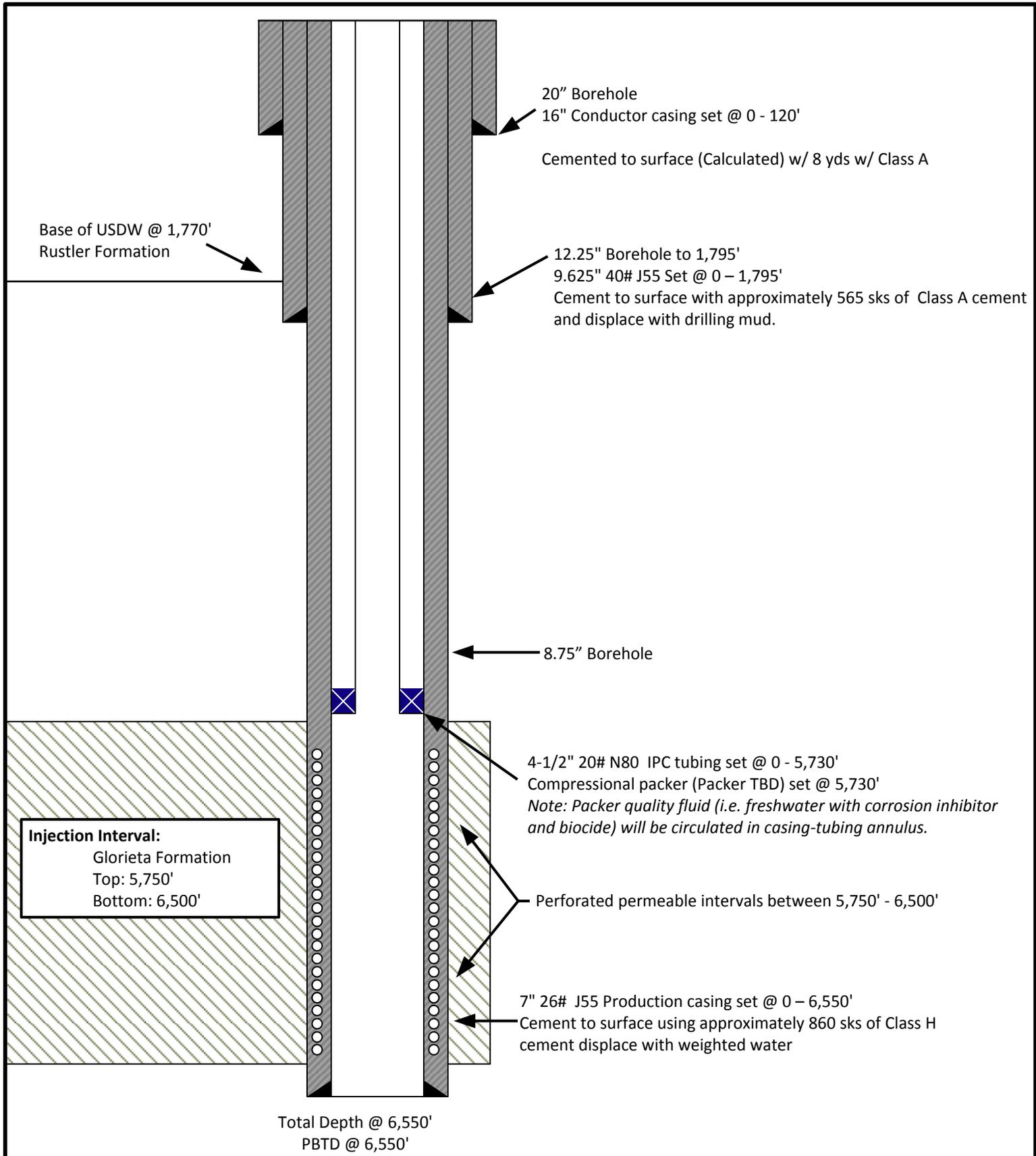
Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



Note: Listed depths and cement volumes are approximates based on available information.

NOT TO SCALE

Prepared by:

Drawn by: Joshua Ticknor

Project Manager:
Nathan Alleman

Date: 05/30/2019

Goodnight Midstream Permian, LLC
Pudge SWD G 1
Section 10, Twp 22S, Rng 36E
2,043' FNL & 2,504' FEL
Lea County, NM



Analytical Results For:

 ALL CONSULTING, LLC
 1718 S. CHEYENNE AVE.
 TULSA OK, 74119

 Project: DASCO CATTLE CO
 Project Number: 32.400000 / - 103.259722
 Project Manager: DAVID ALLEMAN
 Fax To: NA

 Reported:
 20-Jun-19 09:31

Inorganic Compounds - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 9061207 - Filtration
Blank (9061207-BLK1)

Prepared: 13-Jun-19 Analyzed: 14-Jun-19

TSS ND 2.00 mg/L

Duplicate (9061207-DUP1)

Source: H902002-01

Prepared: 13-Jun-19 Analyzed: 14-Jun-19

TSS 265 2.00 mg/L 218 19.5 52.7

Batch 9061308 - Filtration
Blank (9061308-BLK1)

Prepared: 13-Jun-19 Analyzed: 14-Jun-19

TDS ND 5.00 mg/L

LCS (9061308-BS1)

Prepared: 13-Jun-19 Analyzed: 14-Jun-19

TDS 436 mg/L 527 82.7 80-120

Duplicate (9061308-DUP1)

Source: H902024-03

Prepared: 13-Jun-19 Analyzed: 14-Jun-19

TDS 436 5.00 mg/L 439 0.686 20

Batch 9061310 - General Prep - Wet Chem
Blank (9061310-BLK1)

Prepared: 13-Jun-19 Analyzed: 18-Jun-19

Chloride ND 4.00 mg/L

LCS (9061310-BS1)

Prepared: 13-Jun-19 Analyzed: 18-Jun-19

Chloride 96.0 4.00 mg/L 100 96.0 80-120

LCS Dup (9061310-BSD1)

Prepared: 13-Jun-19 Analyzed: 18-Jun-19

Chloride 100 4.00 mg/L 100 100 80-120 4.08 20

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 ALL CONSULTING, LLC
 1718 S. CHEYENNE AVE.
 TULSA OK, 74119

 Project: DASCO CATTLE CO
 Project Number: 32.400000 / - 103.259722
 Project Manager: DAVID ALLEMAN
 Fax To: NA

 Reported:
 20-Jun-19 09:31

Inorganic Compounds - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 9061403 - General Prep - Wet Chem

LCS (9061403-BS1)		Prepared & Analyzed: 14-Jun-19								
pH	7.09		pH Units	7.00		101	90-110			
Conductivity	45800		uS/cm	50000		91.6	80-120			

Duplicate (9061403-DUP1)		Source: H902047-01		Prepared & Analyzed: 14-Jun-19						
pH	7.48	0.100	pH Units		7.52			0.533	20	
Conductivity	7110	1.00	uS/cm		7170			0.840	20	
Resistivity	1.41		Ohms/m		1.39			0.840	20	

Batch 9061405 - General Prep - Wet Chem

Blank (9061405-BLK1)		Prepared & Analyzed: 14-Jun-19								
Alkalinity, Carbonate	ND	1.00	mg/L							
Alkalinity, Bicarbonate	5.00	5.00	mg/L							
Alkalinity, Total	4.00	4.00	mg/L							

LCS (9061405-BS1)		Prepared & Analyzed: 14-Jun-19								
Alkalinity, Carbonate	ND	2.50	mg/L				80-120			
Alkalinity, Bicarbonate	305	12.5	mg/L				80-120			
Alkalinity, Total	250	10.0	mg/L	250		100	80-120			

LCS Dup (9061405-BSD1)		Prepared & Analyzed: 14-Jun-19								
Alkalinity, Carbonate	ND	2.50	mg/L				80-120		20	
Alkalinity, Bicarbonate	318	12.5	mg/L				80-120	4.02	20	
Alkalinity, Total	260	10.0	mg/L	250		104	80-120	3.92	20	

Batch 9061708 - General Prep - Wet Chem

Blank (9061708-BLK1)		Prepared & Analyzed: 17-Jun-19								
Sulfate	ND	10.0	mg/L							

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 ALL CONSULTING, LLC
 1718 S. CHEYENNE AVE.
 TULSA OK, 74119

 Project: DASCO CATTLE CO
 Project Number: 32.400000 / - 103.259722
 Project Manager: DAVID ALLEMAN
 Fax To: NA

 Reported:
 20-Jun-19 09:31

Inorganic Compounds - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 9061708 - General Prep - Wet Chem
LCS (9061708-BS1)

Prepared & Analyzed: 17-Jun-19

Sulfate	16.2	10.0	mg/L	20.0		81.2	80-120			
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LCS Dup (9061708-BSD1)

Prepared & Analyzed: 17-Jun-19

Sulfate	16.1	10.0	mg/L	20.0		80.4	80-120	1.11	20	
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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

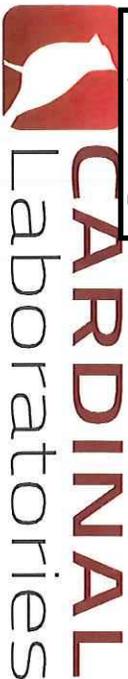
Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
 (575) 393-2326 FAX (575) 393-2476

Company Name: API Consulting **BILL TO** ANALYSIS REQUEST
 Project Manager: _____ P.O. #: _____
 Address: _____ Company: _____
 City: _____ State: _____ Zip: _____ Attn: _____
 Phone #: _____ Fax #: _____ Address: _____
 Project #: _____ Project Owner: _____ City: _____
 Project Name: Dasco Cattle Co State: _____ Zip: _____
 Project Location: 33,400000 - 103,259722 Phone #: _____
 Sampler Name: Koleman Hernandez Fax #: _____

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	SAMPLING	DATE	TIME	ANALYSIS REQUEST
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
<u>H002049</u>	<u>1 C.P. 01318 - Food #1</u>										<u>6/12</u>	<u>4:07</u>	<u>Cation / Anions</u>	
	<u>2 C.P. 01318 - Food #2</u>										<u>6/12</u>	<u>4:17</u>	<u>TSS</u>	
	<u>C.P. 01020 - Food #1</u>										<u>6/12</u>	<u>4:50</u>	<u>Resistivity</u>	
													<u>T. Hardness 200.7</u>	
													<u>Ba, Fe, Sr 200.7</u>	

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: _____ Date: 6-13-19 Received By: _____
 Relinquished By: [Signature] Date: 8:15 Received By: [Signature]
 Delivered By: (Circle One) _____
 Sampler - UPS - Bus - Other: - 0.1c #97 Sample Condition: Cool Intact
 Yes No Yes No
 CHECKED BY: [Signature] (Initials) TP.
 Phone Result: Yes No Add'l Phone #: _____
 Fax Result: Yes No Add'l Fax #: _____
 REMARKS: Bush!

Attachment 7

Public Notice Affidavit and Notice of Application Confirmations