



Kerr-McGee Oil & Gas Onshore LP

Topsoil Protection Plan

**DB Farms 40-12HZ Well Pad and
Facility
SE/4 NE/4 Section 12, 3N 67W**

Weld County, Colorado

August 2021

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1. INTRODUCTION

Kerr-McGee Oil & Gas Onshore LP (KMOG) has developed this site-specific Topsoil Protection Plan to establish proper planning for reclamation of the land and protection of soil affected by oil and gas location construction and operations. All topsoil management shall be in accordance with Colorado Oil and Gas Conservation Commission (COGCC) Series 1000 Reclamation Rules 1001.a, 1002.b and 1002.c requirements.

2. SITE DESCRIPTION

Operator ! ID	Kerr-McGee Oil & Gas Onshore LP
Project ! Site Name:	DB Farms 40-12HZ
Location:	Sec 12, T3N, Range 67W, Weld County, Colorado
Total Area of Project:	14.04 acres
Description of Existing Vegetation:	Existing vegetation on the subject location is winter wheat, land use is agriculture
Soil Type(s):	1 - Altvan Loam 0-1% slopes 8 - Ascalon Loam 0-1% slopes
Operator ID:	47120
Reclamation Manager Contact:	Lynna Scranton HSE Manager Occidental Petroleum Corporation 720-929-6317

3. SITE INVESTIGATION

National Resources Conservation Service (NRCS) soil survey data has been reviewed to determine sampling intervals and locations to identify topsoil depths, texture, and fertility for development of grading plans, topsoil management, interim reclamation plans, and for final reclamation, after plugging and abandonment. Topsoil depth pit excavations and photo reports shall occur twice within each soil map unit within the disturbance area, with additional pits determined by topography, land use change or distinct visual surface changes. Composite samples are gathered within each soil map unit and for every 2 acres of disturbance area at 0 to 6 inches depth, using standard agronomic sampling procedures, and for fertility and texture analysis. Refer to Appendices A, B, C, and D for this information.

4. PROPOSED SEQUENCE OF MAJOR ACTIVITIES

- 1) **Topsoil Removal:** Depth of each soil horizon will vary with individual soil units, and determination of depth and proper removal will be monitored during construction by physical characteristics of color, density, and texture change of soil, and as determined during Site Investigation. Topsoil may not be removed during wet soil moisture conditions, as field determined considering soil texture.
- 2) **Subsoil Horizon Separation:** Lower soil horizons will be stockpiled separately from topsoil where it can be used for contouring during reclamation and preserved in order of original state. Distinctly visible soil horizons or soil types shall be stockpiled separately (i.e. gravel or shale layers). Under no circumstances shall subsoil be mixed with topsoil, nor placed on top of the removed topsoil stockpile
- 3) **Topsoil Protection:** If topsoil will be stockpiled for extended periods of time, it shall be protected from degradation due to erosion, compaction and contamination and to maintain soil microbial activity, using best management practices such as stabilizing with mulch, seeding, track walking, perimeter control or a combination of BMPs. Weeds on stockpiles shall be controlled as to prevent production of weed seed and/or enough biomass that would interfere with redistribution of soil or cause onsite debris. Signage shall be installed to identify topsoil stockpiles to facilitate subsequent reclamation and indicate to personnel that the area may not be disturbed during drilling and completion operations.
- 4) **Recontouring and Compaction Relief:** The first material to backfill will be from excavated subsoil materials, and compacted to avoid subsidence, but not restrictive to root growth of plants. The stockpiled soil horizons will be replaced in order and graded with the adjacent undisturbed land. Ripping/subsoiling will be required prior to topsoil redistribution if soil is overly compacted from vehicle or equipment traffic.
- 5) **Topsoil Redistribution:** The stockpiled topsoil will be redistributed uniformly and to minimize compaction of soil. Topsoil may not be redistributed during wet soil moisture conditions. Topsoil should be leveled with the adjacent undisturbed land, irrigable land being of importance for uniform coverage by flood irrigation water.

5. TOPSOIL STORAGE REQUIREMENTS

- 1) **Calculations:** Stored topsoil amounts to facilitate subsequent or final reclamation shall be calculated based off areas remaining for production operations and integrated as part of the interim reclamation area per Rule 1003.
- 2) **Interim Reclamation:** Placement and distribution will be determined by disturbance area boundaries, surface owner input, land use, and topography.
- 3) **Topsoil Protection:** Stored topsoil shall be protected from erosion and to maintain soil microbial activity, using a combination of best management practices, such as proper design of stockpile depth and contour, stabilizing with mulch, seeding, track walking, perimeter control, establishment of vegetation and weed control.
- 4) **Signage and Identification:** Stored topsoil locations will be documented per Rule 407. Form 45, Location Construction Report. Signage identifying topsoil shall be installed, where feasible, based on land use.

6. STORMWATER CONTROLS/BMPS FOR TOPSOIL STOCKPILE:

a) Construction Phase

- Perimeter ditch and berm to catch water and sediment from large storm/runoff events
- Track packing to prevent wind and water erosion
- Seeding and crimped straw mulch to prevent wind and water erosion.
- Establishment of vegetation to promote soil health and maintain carbon exchange.
- Weed control to hinder the spread of weeds throughout the stockpile and help native grass establishment.

b) Drilling Phase

- Perimeter ditch and berm to catch water and sediment from large storm/runoff events
- Track packing to prevent wind and water erosion
- Seeding and crimped straw mulch to prevent wind and water erosion.
- Establishment of vegetation to promote soil health and maintain carbon exchange.
- Weed control to hinder the spread of weeds throughout the stockpile and help native grass establishment.

c) Production Phase

- Establishment of vegetation to promote soil health and maintain carbon exchange.
- Weed control to hinder the spread of weeds throughout the stockpile and help native grass establishment.

Refer to Site Plans (Appendix D)

7. INSPECTION AND MAINTENANCE PROCEDURES

6.1 Inspections

Post-construction stormwater inspections will be conducted in accordance with COGCC Rules 1002.f and 1003.e, to document the status of the location, maintenance needs, effectiveness of stormwater control measures, to evaluate pollution sources, to document reclamation / final stabilization progress and necessary weed control. Inspections will be managed by the Reclamation Contact and conducted by their designated representative(s). Inspection forms will document current conditions, including evidence of or potential for off-site erosion, weed control, additional control measures that are needed, or repair and maintenance issues.

Findings, inspection records and site maps are documented electronically and available within 24 hours of any inspection.

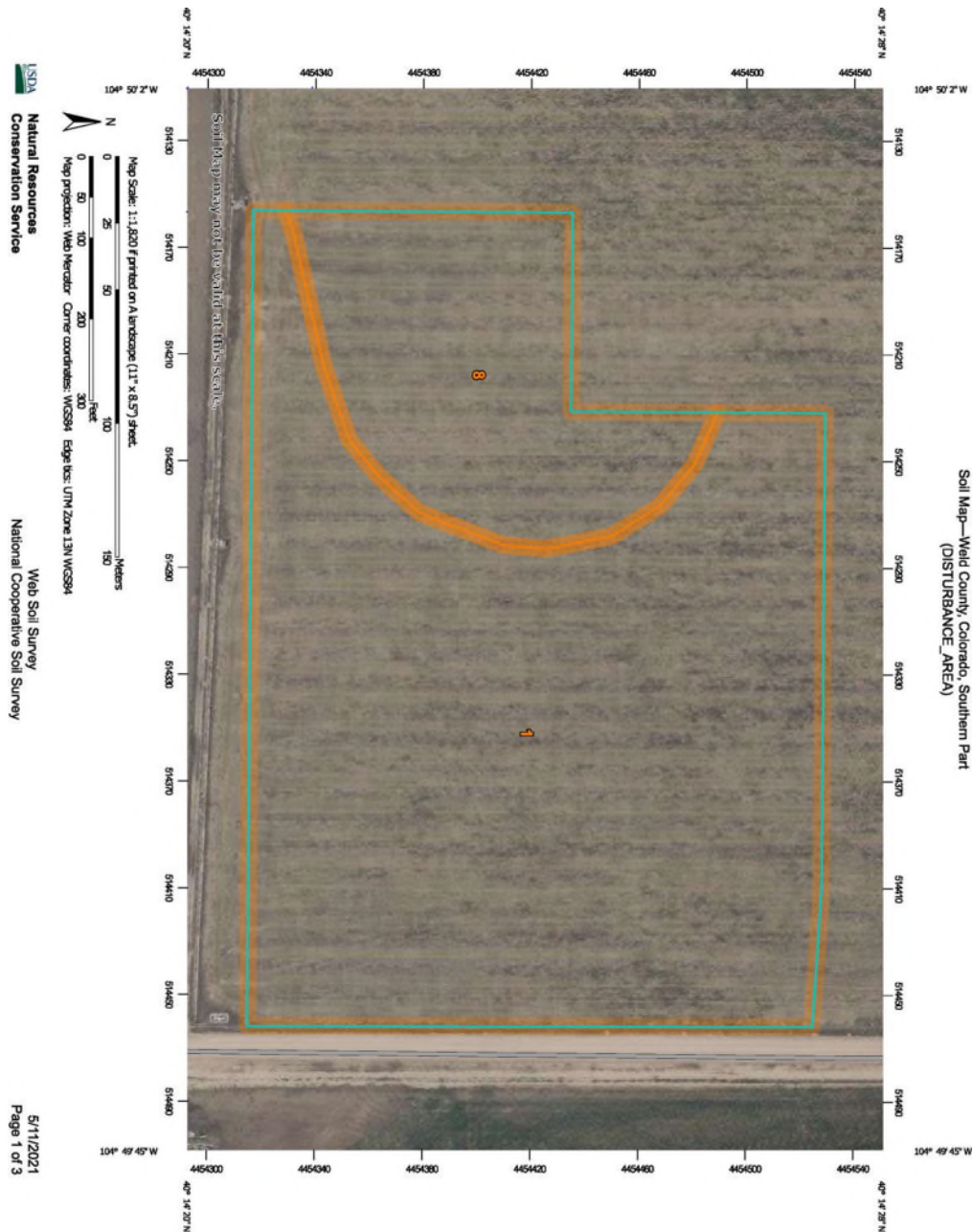
6.2 Maintenance

For maintenance items discovered, proposed repairs or upgrades to stormwater control measures to ensure topsoil protections will be documented and coordinated with production crews. Timeline for completion of maintenance items are a priority and will depend on scope; but in all cases, shall not be completed until field conditions allow for safe access, and utility clearance has been confirmed for items requiring ground disturbance / earthwork.

APPENDIX A

NRCS Survey Data and Sampling Locations

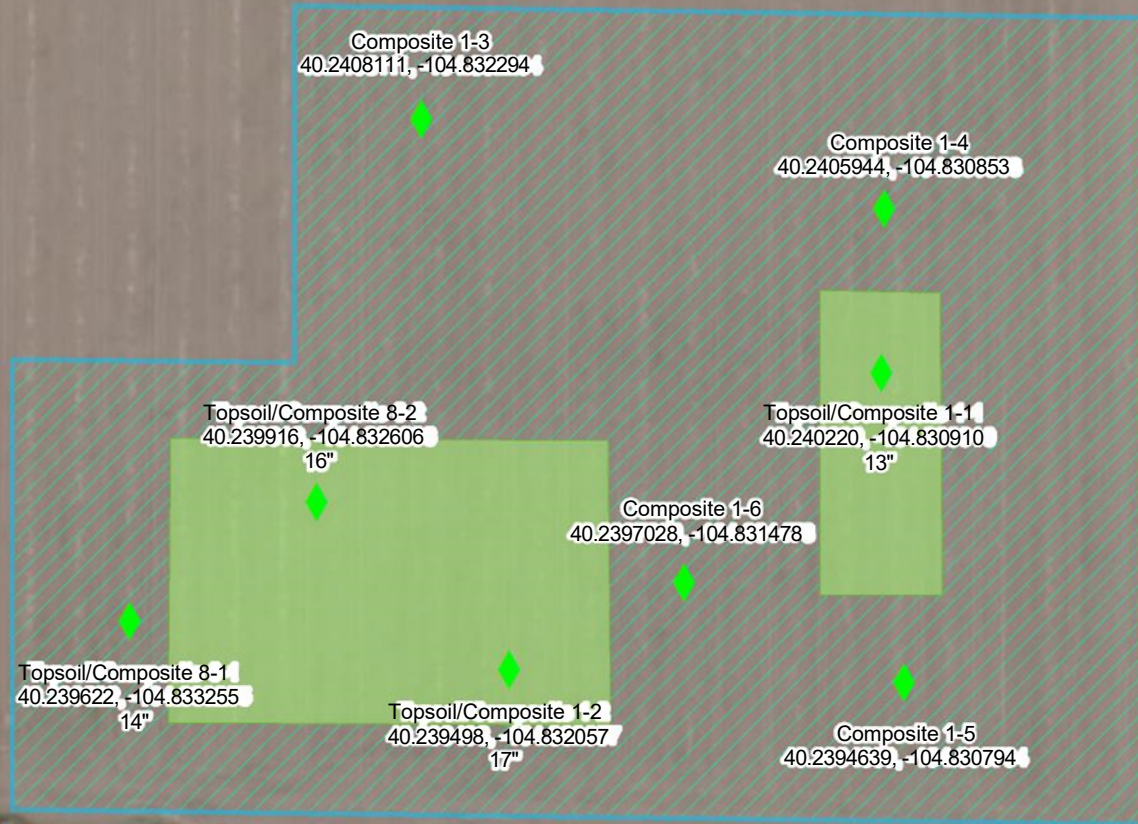
Soil Map



Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
1	Altvan loam, 0 to 1 percent slopes	11.3	78.5%
8	Ascalon loam, 0 to 1 percent slopes	3.1	21.5%
Totals for Area of Interest		14.4	100.0%

(602-111) DB Farms 40-12HZ

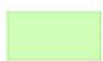
SECTION 12, TOWNSHIP 3N, RANGE 66W, 6TH P.M. WELD COUNTY, CO



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



Preliminary Survey Area



Multi Well Pad and Production Facility

x Soil Sample Locations

PREPARED BY:



7674 Grandview Ave., Ste. 210
Arvada, CO 80002

0 100 200
Feet

SOURCES:
Project Features, 2DOT 2021
and KMOG 2021. Source
Data Updated: 2/2021

PREPARED FOR:



Projection: Nad83 UTM 13N Date: 6/2/2021
Drafted By: MC Reviewed By: SJ

Topsoil/Composite
Pit Locations &
Topsoil Depths (Inches)
Figure 1

Weld County, Colorado, Southern Part

1—Altvan loam, 0 to 1 percent slopes

Map Unit Setting

National map unit symbol: 361j

Elevation: 4,500 to 4,900 feet

Mean annual precipitation: 14 to 16 inches

Mean annual air temperature: 46 to 48 degrees F

Frost-free period: 130 to 150 days

Farmland classification: Not prime farmland

Map Unit Composition

Altvan and similar soils: 90 percent

Minor components: 10 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Altvan

Setting

Landform: Terraces

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Old alluvium

Typical profile

H1 - 0 to 10 inches: loam

H2 - 10 to 25 inches: clay loam

H3 - 25 to 60 inches: gravelly sand

Properties and qualities

Slope: 0 to 1 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water

(Ksat): Moderately high to high (0.20 to 2.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 5 percent

Available water capacity: Low (about 5.7 inches)

Interpretive groups

Land capability classification (irrigated): 3s

Land capability classification (nonirrigated): 4e

Hydrologic Soil Group: B

Ecological site: R067BY002CO - Loamy Plains

Hydric soil rating: No

Minor Components

Cascajo

Percent of map unit: 9 percent

Hydric soil rating: No

Aquic haplustolls

Percent of map unit: 1 percent

Landform: Swales

Hydric soil rating: Yes

Data Source Information

Soil Survey Area: Weld County, Colorado, Southern Part

Survey Area Data: Version 19, Jun 5, 2020

Weld County, Colorado, Southern Part

8—Ascalon loam, 0 to 1 percent slopes

Map Unit Setting

National map unit symbol: 2tlnq

Elevation: 3,870 to 6,070 feet

Mean annual precipitation: 13 to 16 inches

Mean annual air temperature: 47 to 54 degrees F

Frost-free period: 135 to 160 days

Farmland classification: Prime farmland if irrigated

Map Unit Composition

Ascalon and similar soils: 85 percent

Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Ascalon

Setting

Landform: Terraces

Landform position (three-dimensional): Tread

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Wind-reworked alluvium and/or calcareous sandy eolian deposits

Typical profile

Ap - 0 to 6 inches: loam

Bt1 - 6 to 12 inches: sandy clay loam

Bt2 - 12 to 19 inches: sandy clay loam

Bk - 19 to 35 inches: fine sandy loam

C - 35 to 80 inches: fine sandy loam

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Well drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat):
Moderately high to high (0.60 to 6.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum in profile: 10 percent
Salinity, maximum in profile: Nonsaline (0.1 to 1.9 mmhos/cm)
Sodium adsorption ratio, maximum in profile: 1.0
Available water storage in profile: Moderate (about 8.0 inches)

Interpretive groups

Land capability classification (irrigated): 3e
Land capability classification (nonirrigated): 4c
Hydrologic Soil Group: B
Ecological site: Loamy Plains (R067BY002CO)

Minor Components

Olneest

Percent of map unit: 10 percent
Landform: Terraces
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: Sandy Plains (R067BY024CO)

Nunn

Percent of map unit: 5 percent
Landform: Terraces
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: Loamy Plains (R067BY002CO)

Data Source Information

Soil Survey Area: Weld County, Colorado, Southern Part
Survey Area Data: Version 14, Sep 22, 2015

APPENDIX B

Photolog Topsoil Depth



Photograph 1. The topsoil depth observed was 14 inches. Measurements were taken from the layers observed above the plowed layer.



Photograph 2. The topsoil depth observed was 16 inches. Measurements were taken from the layers observed above the plowed layer.



Photograph 3. The topsoil depth observed was 13 inches. Measurements were taken from the layers observed above the plowed layer.



Photograph 4. The topsoil depth observed was 17 inches. Measurements were taken from the layers observed above the plowed layer.

APPENDIX C

Soil Analysis

ORIGINS

LABORATORY, INC

Two Dot Consulting
2200 West 29th Ave
Denver CO 80211

Sam Joseph
Project Number: 602-111
Project: Oxy - DB Farms

Origins Laboratory

F-012207-01-R1
Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: Y105194

Client: 2-Dot

Client Project ID: DB Farms

Checklist Completed by: JG

Shipped Via: HD

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 5/11/21

Airbill #: 6711

Matrix(s) Received: (Check all that apply): ☒ Soil/Solid

☐ Water

☐ Other:

(Describe)

Cooler Number/Temperature: 1, 1.8 °C / °C / °C / °C

Thermometer ID: 1003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 8°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc ₂ +NaOH)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

⁽¹⁾If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) Jm

Date/Time Reviewed 5-12-21



Jen Pellegrini, Project Manager

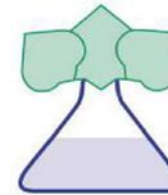
The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

American Agricultural Laboratory, Inc.

700 West D Street / PO Box 370 / McCook, Nebraska 69001

Office: 308-345-3670 / FAX: 308-345-7880

www.AmAgLab.com



95029

ORIGINS LABORATORY INC

1725 ELK PLACE

DENVER CO 80211

NAME : ORIGINS OXY DB FARMS Y105193

DATE RECEIVED: 05/12/2021

DATE REPORTED: 05/14/2021

SOIL TEST RESULTS

LAB NUMBER	FIELD IDENTIFICATION	SAMPLE IDENTIFICATION	Depth Inches	pH		EL	SOLUBLE SALTS mod. SP mmhos/cm	OM LOI %	NITRATE-N (FIA)		PHOSPHORUS				
				1 : 1 Soil	Buffer Woodruff				ppm	lbs/A	P1 ppm	Bicarb ppm	P2 ppm	M2 ppm	M3 ppm
3333651	Y105193	01	0-8					1.5	1.3	3		22			
3333652	Y105193	02	0-8		7.0			1.2	1.2	3		27			

LAB NUMBER	SULFATE-S Ca-P ppm	NH4OAc (Exchangeable)				DTPA				BORON Sorbitol ppm	EST. CATION EXCHANGE CAPACITY (CEC) me/100g	% SATURATION					
		K ppm	Ca ppm	Mg ppm	Na ppm	Zn ppm	Fe ppm	Mn ppm	Cu ppm			BASE	H	Ca	Mg	K	Na
3333651		277	1440	276	7					0.8	10.2	100	0	70	23	7	0
3333652		230	1240	245	12					0.7	8.9	100	0	69	23	7	1

LAB NUMBER	SOLUBLE (SAT. EXT.)			SODIUM ADSORPTION RATIO (SAR)	EXCH. SODIUM PERCENT (ESP)	GYPSUM REQ T/A	PARTICLE SIZE ANALYSIS				CHLORIDE		EXCH. NH4-N		ALUMINUM ppm	TOTAL N %
	Ca me/L	Mg me/L	Na me/L				SAND %	SILT %	CLAY %	SOIL TEXTURE	ppm	lbs/A	ppm	lbs/A		
3333651	1.86	0.81	0.52	0.4510			51	30	19	LOAM						
3333652	2.48	1.02	0.75	0.5710			61	20	19	SANDY LOAM						

SUGGESTED FERTILIZER RECOMMENDATIONS

LAB NUMBER	FIELD IDENTIFICATION	SAMPLE IDENTIFICATION	CROP TO BE GROWN	YIELD GOAL	N	P2O5	K2O	S	Zn	MgO	Fe	Mn	Cu	B	Cl	LIME REC 60% ECCE T/A
3333651	Y105193	01														
3333652	Y105193	02														

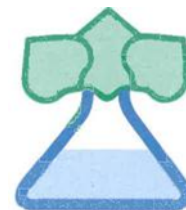
Approved By: Kevin Grooms

Analysis By: American Agricultural Lab

Recommendations By: American Agricultural Lab

Amsnrican Agn_{is}riEIIIN.11 | nnnrni-nry Inc

700 West D St. / P.O. Box 370 McCook, Nebraska 69001
Office: 308-345-3670 / FAX: 308-345-7880 / www.AmAgLab.com
lpqnct4i.v..5 you ?fan 4°'tO:- %AKA ".



ORIGINS LABORATORY INC
1725 ELK PLACE
DENVER, CO 80211

ACCOUNT NO: 95029
DATE RECEIVED: 5/12/2021
DATE REPORTED: 5/14/2021

SATURATED PASTE EXTRACT ANALYSIS

Lab No.	Grower	Field ID	Sample ID	Depth inches	pH s.u.	Soluble Salts mmhos/cm
3333651	ORIGINS	UNIT 1 Y105193	1	0-8	7.0	0.38
3333652	ORIGINS	UNIT 8 Y105193	2	0-8	7.0	0.32

Electronically Approved by: Kevin Grooms

Y105193

Client UXY

Project Manager: SAM .k)SEPTi

Address' F'7⁴ STE Z.10

Project Name- bt. VAR NS

a/gAm LA) AVE A LV.4 vs, / c()

Project Number: — IIi

Telephone Number: (570) a7 - ta) a5

Samples Collected By 5S r iv+ c

Email Address. ScX 7,1>zir - CAJSQL-nde com

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix				ib:: Analysis				Sample Instructions	
				Unpreserved	HCl	HNO ₃	26	Groundwater	.75	Alk	It	6	g	E			
bnt 4- 1	5/11	ltoc)	1														1
1) Kt4- i<	i)1 ⁰¹ ..	114<	1														2
																	3
																	4
																	5
																	6
																	7
																	8
																	9
																	10
Relinquished By:	Date: Sidi 24t1		Time: iSI 9	eived				at: Cfil /2 i				Time: 1 IS		Time: 24 H			
Refill 'shed By:	Date:		Time:	ved By:				Date:		Time:		72		HrC			

Temp Received- I

Date Results Needed

Fax: 303.265.9645

Phone: 303.433.1322

Denver, CO 80211

1725 Elk Place

Sample Receipt Checklist

Origins Work Order:

Y105193

Client:

Z- DO+

Client Project ID:

hF) rch int 5

Checklist Completed by:

JG

Shipped Via:

Hb

Airbill #:

(UPS, Fzd1;7411and Delivered, Pick-up. etc.)

Date/time completed:

cfithiMatrix(s) Received: (Check all that apply): 40% Soil/Solid

Water

Other:

(Describe)

Cooler Number/Temperature: iliq °C

ec

°C

°C

Thermometer

1803

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to < re'?	/r			
Is there ice present (document if blue ice is used)				
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		,-----'		
Are custody seals present on each sample container? (d so, document in comments if they are signed and dated, broken or intact)				
Were all samples received Intactm?	,,,,"--..			
Was adequate sample volume providedl'?				
Are short holding lime anaiytes or samples with HTs due within 48 hours presene''?		./.....		
Is a chain-of-custody (COC) present and filled out completely''?	e-----			
Does the COC agree with the number and type of sample bottles received''?	se'			
Do the sample IDs on the bottle labels match the COC''?	----"r			
Is the COC properly relinquished by the client with date and time recorded''?--			
For volatiles in water — is there headspace (> % inch bubble) present? If yes, contact client and note in narrative.				
Are samples preserved that require preservation and was it cheCked ⁽¹¹⁷⁾ (note ID of confirmation instrument used in comments)/ (preservation is net confirmed for subcontracted analyses In order to insure sample iMegntY)4PH <2 for samples preserved with HNO3, HCL, H2SO4) r (01-W for samples preserved with NeAsO2+1VaOH, ZnAc+NaOH			
Additional Comments of anv)•				

ⁱ If NO, then contact the client before proceeding with analysis and note date/time and person contacted as weN as the corrective action to to in the additional comm (above) and the case narrative.

Reviewed b

roject Manager)

-21

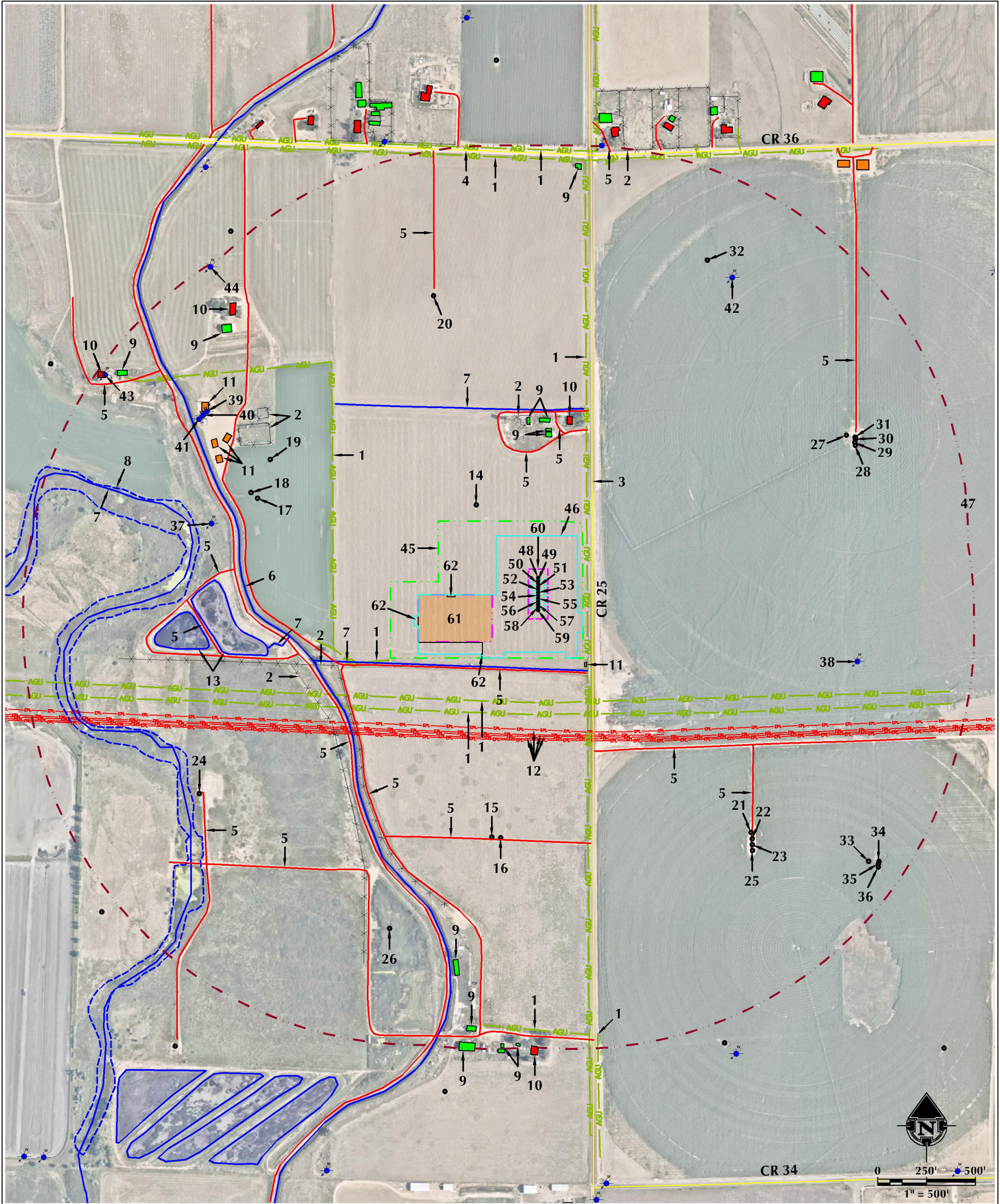
Reviewed

APPENDIX D

Site Plans

LOCATION DRAWING
DB FARMS 40-12HZ
HORIZONTAL MULTI-WELL PAD

SE1/4 NE1/4 SECTION 12, TOWNSHIP 3 NORTH, RANGE 67 WEST, 6TH P.M.



- | | | | |
|--|---|---|--|
| 1. ABOVE GROUND UTILITY LINES ARE ±22' E, ±153' W, ±218' S, ±280' S, ±413' W, ±1081' S, ±1925' N, ±1930' S, AND ±1972' N. | 13. EXISTING PONDS ARE ±760' W AND ±1054' W. | 30. *EXISTING WELL: P VILLE 31-7 IS ±1506' E. | 48. PROPOSED WELL: DB FARMS 12-1HZ |
| 2. EXISTING FENCES ARE ±413' W, ±564' SW, ±567' N, ±1082' NW, ±1189' NW AND ±1991' N. | 14. *EXISTING WELL: BOULTER 42-12 (PA) IS ±187' NW. | 31. *EXISTING WELL: FREUND 21-7 IS ±1510' E. | 49. PROPOSED WELL: DB FARMS 12-2HZ |
| 3. COUNTY ROAD 25 IS ±36' E. | 15. *EXISTING WELL: OPATRIL P 12-22D (PA) IS ±917' S. | 32. *EXISTING WELL: FREUND 17-4 (PA) IS ±1560' NE. | 50. PROPOSED WELL: DB FARMS 12-3HZ |
| 4. COUNTY ROAD 36 IS ±1939' N. | 16. *EXISTING WELL: OPATRIL 12-9L (PA) IS ±920' S. | 33. *EXISTING WELL: CULLEN HILDENBRANDT PU 1 (PA) IS ±1818' SE. | 51. PROPOSED WELL: DB FARMS 12-4HZ |
| 5. EXISTING PRIVATE ROADS ARE ±55' S, ±387' W, ±431' N, ±487' S, ±492' SW, ±525' N, ±608' W, ±926' S, ±986' W, ±1004' SE, ±1139' S, ±1306' N, ±1308' SW, ±1522' E, ±1750' NW AND ±1974' N. | 17. *EXISTING WELL: ODENBAUGH P 12-21D (PA) IS ±959' NW. | 34. *EXISTING WELL: FREUND FEDERAL 35-7 (PA) IS ±1861' SE. | 52. PROPOSED WELL: DB FARMS 12-5HZ |
| 6. FARMERS INDEPENDENT DITCH IS ±475' SW. | 18. *EXISTING WELL: ODENBAUGH 12-71 (PA) IS ±1063' NW. | 35. *EXISTING WELL: FREUND FEDERAL 25-7 (PA) IS ±1866' SE. | 53. PROPOSED WELL: DB FARMS 12-6HZ |
| 7. EXISTING DITCHES ARE ±44' S, ±638' W, ±644' N AND ±1180' W. | 19. *EXISTING WELL: ODENBAUGH, PAUL GAS UNIT 1 (PA) IS ±1026' NW. | 36. *EXISTING WELL: FREUND 33-7 (PA) IS ±1875' SE. | 54. PROPOSED WELL: DB FARMS 12-7HZ |
| 8. EXISTING WETLAND IS ±1147' W. | 20. *EXISTING WELL: BOULTER 41-12A IS ±1270' N. | 37. *EXISTING WATER WELL (PERMIT #30965-MH) IS ±1118' W. | 55. PROPOSED WELL: DB FARMS 12-8HZ |
| 9. EXISTING BUILDINGS ARE ±507' N, ±537' N, ±573' N, ±583' N, ±1546' S, ±1650' NW, ±1866' NW, ±1877' N, ±1883' S, ±1968' S, ±1973' S AND ±1976' S. | 21. *EXISTING WELL: HSR-M J FARMS 12-7 IS ±1260' SE. | 38. *EXISTING WATER WELL (PERMIT #12562-RR) IS ±1411' E. | 56. PROPOSED WELL: DB FARMS 12-9HZ |
| 10. EXISTING RESIDENCE BUILDING UNITS ARE ±571' N, ±1712' NW, ±1955' NW AND ±1990' S. | 22. *EXISTING WELL: HENRICKSON 34N-18HZ IS ±1288' SE. | 39. *EXISTING WATER WELL (PERMIT #206854) IS ±1433' NW. | 57. PROPOSED WELL: DB FARMS 12-10HZ |
| 11. EXISTING FACILITIES ARE ±45' SE, ±1208' NW, ±1248' NW, ±1276' NW AND ±1426' NW. | 23. *EXISTING WELL: HENRICKSON 13C-18HZ IS ±1310' SE. | 40. *EXISTING WATER WELL (PERMIT #206853) IS ±1435' NW. | 58. PROPOSED WELL: DB FARMS 12-11HZ |
| | 24. *EXISTING WELL: OPATRIL 12-10L (PA) IS ±1329' SW. | 41. *EXISTING WATER WELL (PERMIT #2206843) IS ±1438' NW. | 59. PROPOSED WELL: DB FARMS 12-12HZ |
| | 25. *EXISTING WELL: HENRICKSON FEDERAL 13N-18HZ IS ±1332' SE. | 42. *EXISTING WATER WELL (PERMIT #33675) IS ±1542' NE. | 60. PUMP JACK OPERATIONS AREA |
| | 26. *EXISTING WELL: OPATRIL UNIT 1 (PA) IS ±1410' S. | 43. *EXISTING WATER WELL (PERMIT #284747) IS ±1957' NW. | 61. PROPOSED DB FARMS 40-12HZ FACILITY |
| | 27. *EXISTING WELL: SALAMANCA, FRANK 1 IS ±1470' E. | 44. *EXISTING WATER WELL (PERMIT #48354) IS ±1987' NW. | 62. TEMPORARY EQUIPMENT AREA |
| | 28. *EXISTING WELL: P VILLE FEDERAL 22-7 (PA) IS ±1496' E. | 45. OPERATIONAL DISTURBANCE AREA | |
| | 29. *EXISTING WELL: P VILLE FEDERAL 5-7 IS ±1498' E. | 46. WORKING PAD SURFACE | |
| | | 47. 2000' WORKING PAD SURFACE BUFFER | |

*SURFACE FEATURE NOT FIELD VERIFIED

LEGEND		
● EXISTING WELL	WORKING PAD SURFACE	AGU ABOVE GROUND UTILITY LINE
● PROPOSED WELL	2000' WORKING PAD SURFACE BUFFER	EXISTING FACILITY
W WATER WELL	DISTURBANCE AREA	EXISTING BUILDINGS
P PUBLIC ROAD	PUMP JACK AREA	RESIDENCE/BUILDING UNIT
PR PRIVATE ROAD	DITCH/CANAL/DRAINAGE	POND
— EXISTING FENCE	EPL EXISTING PIPELINE	

ALL MEASUREMENTS ARE MADE
FROM NEAREST EDGE OF
WORKING PAD SURFACE

SURFACE USE: IRRIGATED CROPLAND

NEAREST BUILDING UNIT: ±571' N

PREPARED FOR:
Kerr-McGee Oil & Gas Onshore L.P.



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DATE SURVEYED: 3/16/2020
DATE: 4/19/21
DRAFTER: GLK
REVISED: 5/26/21

DATA SOURCES & NOTES:
- AERIAL COURTESY OF ESRI, INC.
- WATER WELLS COURTESY OF COLORADO DIVISION OF WATER RESOURCES