

State of Colorado
Oil and Gas Conservation Commission



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

FOR OGCC USE ONLY
REM 9850
Document 2526962

OGCC Employee:

Spill Complaint
 Inspection NOAV

Tracking No:

SITE INVESTIGATION AND REMEDIATION WORKPLAN

This form shall be submitted to the Director for approval prior to the initiation of site investigation and remediation activities. Form 27 is intended to be used whenever possible. Additional documentation will be required when large volumes of soil and groundwater have been impacted or involve large facilities with multiple source areas. See Rule 910. Attach as many pages as needed to fully describe the proposed work.

CAUSE OF CONDITION BEING INVESTIGATED AND REMEDIATED

Spill or Release Plug & Abandon Central Facility Closure Site/Facility Closure Other (describe): _____

OGCC Operator Number: <u>95960</u>	Contact Name and Telephone: <u>April Stegall</u>
Name of Operator: <u>Wexpro Company</u>	No: <u>307.352.7561</u>
Address: <u>PO Box 458</u>	Fax: <u>307.352.7583</u>
City: <u>Rock Springs</u> State: <u>WY</u> Zip: <u>82901</u>	
API Number: <u>05-081-05503</u>	County: <u>Moffat County</u>
Facility Name: <u>Carl Allen 4 pit</u>	Facility Number: <u>100621</u>
Well Name: <u>Carl Allen</u>	Well Number: <u>4</u>
Location: (QtrQtr, Sec, Twp, Rng, Meridian): <u>NWSW-28-12N-97W</u>	Latitude: <u>40.986358</u> Longitude: <u>-108.305133</u>

TECHNICAL CONDITIONS

Type of Waste Causing Impact (crude oil, condensate, produced water, etc.): Produced Water

Site Conditions: Is location within a sensitive area (according to Rule 901e)? Y N If yes, attach evaluation.

Adjacent land use (cultivated, irrigated, dry land farming, industrial, residential, etc.): Rangeland, Non-cropland, Oil and Gas

Soil type, if not previously identified on Form 2A or Federal Surface Use Plan: Tresano-Hiatha-Kandaly

Potential receptors (water wells within 1/4 mi, surface waters, etc.): 653' from natural drainage, 3543' from nearest water well

Description of Impact (if previously provided, refer to that form or document):

Impacted Media (check):	Extent of Impact:	How Determined:
<input checked="" type="checkbox"/> Soils	<u>TBD</u>	<u>Soil Analysis</u>
<input type="checkbox"/> Vegetation	_____	_____
<input type="checkbox"/> Groundwater	_____	_____
<input type="checkbox"/> Surface Water	_____	_____

REMEDATION WORKPLAN

Describe initial action taken (if previously provided, refer to that form or document):
See attached pit closure procedure.

Describe how source is to be removed:
See attached pit closure procedure. Pit is open.

Describe how remediation of existing impacts is to be accomplished, including removal and disposal at an injection well or licensed facility, land treatment on site, removal of impacted groundwater, insitu bioremediation, burning of oily vegetation, etc.:
See attached pit closure procedure.



Tracking Number: _____
Name of Operator: _____
OGCC Operator No: _____
Received Date: _____
Well Name & No: _____
Facility Name & No: 100621 / 312821

Page 2
REMEDIATION WORKPLAN (Cont.)

OGCC Employee: _____

If groundwater has been impacted, describe proposed monitoring plan (# of wells or sample points, sampling schedule, analytical methods, etc.):

See attached pit closure procedure.

Describe reclamation plan. Discuss existing and new grade recontouring; method and testing of compaction alleviation; and reseeding program, including location of new seed, seed mix and noxious weed prevention. Attach diagram or drawing. Use additional sheet for description if required.

See attached pit closure procedure.

Attach samples and analytical results taken to verify remediation of impacts. Show locations of samples on an onsite schematic or drawing.

Is further site investigation required? Y N If yes, describe:

See attached pit closure procedure. Pit samples will be obtained upon approval.

Final disposition of E&P waste (landtreated and disposed onsite, name of licensed disposal facility, recycling, reuse, etc.):

See attached pit closure procedure.

IMPLEMENTATION SCHEDULE

Date Site Investigation Began: 2016 Date Site Investigation Completed: 2016 Date Remediation Plan Submitted: _____
Remediation Start Date: NA Anticipated Completion Date: 2016 Actual Completion Date: TBD

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Print Name: April Stegall Signed: *April Stegall*
Title: Reclamation Agent Date: 9/26/2016

OGCC Approved: *Kris Weibel* Title: EPS Date: 9/26/16

See next Page for Conditions of Approval

- In final report please include; field notes and/or boring logs that address soils observation.
- Work plan is approved; however additional information and remediation may be required during the course of investigation and remediation.

"Describe initial action taken":

First, a visual inspection will be performed; looking for signs of stained soil and any potential leeching of pit components that may have impacted surface water or groundwater. A Form 27 with attachments is being submitted with the pit size and location. The attachments include the following: NRC soil map description, topographic map and/or Google Earth image and additional information detailing the distance to the nearest water source, estimated groundwater depth and distance from the nearest water well.

It is believed that most, if not all, pits in the Hiawatha/Powder Wash area were lined with bentonite liners. These liners would have been broken up during the process of "stirring and airing" that occurs on all Wexpro Company pits prior to sampling.

"Describe how source is to be removed":

The following steps will be performed:

- a. 72 hour notification will be given to COGCC prior to sampling.
- b. Enough discreet samples to adequately characterize the impact of the pit will be collected from the pit bottom and side walls. If the location of the load line's discharge to the pit is known, a sample of the wall opposite of the load line's discharge will be taken as one of the side wall samples. A sample of the low point of the pit bottom will be taken. Depth of samples will be determined by visual observations during sampling, as to best obtain a sample of the native soil. Crews will be watching for indications of groundwater during sampling. If groundwater is encountered, COGCC will be notified immediately.
- c. All samples will be sent to a lab and tested according to Table 910-1. Testing results will be submitted to COGCC with an attached Form 4 Sundry, or new Form 27.
- d. Three background reference samples will also be obtained and tested for arsenic (*If a location has two or more pits, an adequate number of background reference samples will be obtained*). Wexpro Company will provide a map of previously obtained arsenic samples within a one mile radius of the pit to be sampled. If pit arsenic results are within a reasonable range of previous samples, offsite samples will not be conducted. Arsenic maps will be submitted with soil analysis results.
- e. GPS coordinates (meeting Rule 215 requirements) for sampling points and depths will be provided with Form 27 and soil analysis results. All samples will be mapped and submitted with soil analysis results.
- f. If samples meet the COGCC Table 910-1 requirements, Wexpro Company will request closure of the facility in the COGCC database and No Further Action (NFA). If pit depth is known, it will be referenced in the Final Form 27 in comparison to depth at which pit samples were obtained. If samples do not meet Table 910-1 requirements, another Form 27 with remediation plan will be submitted.

"Describe how remediation of existing impacts is to be accomplished, including removal and disposal at an injection well or licensed facility, land treatment on site, removal of impacted groundwater, insitu bioremediation, burning of oily vegetation, etc.":

To be determined after soil analysis. If remediation is necessary, an additional Form 27 with remediation plan will be submitted.

In the event that pit tests high for EC/SAR/pH, COGCC requires that materials with elevated pH, SAR, or EC be buried under a minimum of three (3) feet of backfill cover and soil that satisfies either the Table 910-1 levels for pH, SAR, and EC or the background levels for such contaminants within three (3) feet of the ground surface at the site. In addition, the soil horizons must be replaced in their original relative position and reclaimed in accordance with 1000 Series Rules, including the establishment of vegetative cover on non-cropland and successful crop growth on cropland. During final reclamation of the well pad, the pits will be backfilled and re-contoured with the well pad (if not previously done). Berm dirt will be knocked into the pit area and compacted. If less than 3' of backfill material is required, soils used for production pit berms will include a confirmation soil sample to demonstrate that soil is below Table 910-1 standards. Additional material, if needed, will be agronomic topsoil, brought in from a commercial or offsite source.

"If groundwater has been impacted, describe proposed monitoring plan":

To be determined, if necessary. In the event that groundwater has been potentially impacted, the extent will be determined and Wexpro Company will submit a monitoring plan to COGCC. In general, a minimum of at least one up-gradient and three down-gradient monitoring wells will be required. The actual number will be dependent upon site specific conditions.

"Describe reclamation plan. Discuss existing and new grade recontouring; method and testing of compaction alleviation; and reseeding program, including location of new seed, seed mix and noxious weed prevention. Attach diagram or drawing. Use additional sheet for description if required":

Surface reclamation will be compliant with COGCC 1000 series rules. Wexpro Company understands that approval of a Form 27 does not imply approval of the reclamation planned submitted prior to final reclamation of the well pad. Wexpro Company will notify the COGCC Regional Reclamation Specialist and Surface Owner for reclamation plan approval prior to final reclamation. All reclamation on Federal Surface will comply with BLM, or other implementing agency, specifications. Final reclamation will take place after the plugging and abandonment of the well.

"Attach samples and analytical results taken to verify remediation impacts. Show locations of samples on an onsite schematic or drawing. Is further site investigation required? If yes, describe":

Soil investigation for the project will be carried out as described above. All analytical data obtained will be submitted to COGCC, on an attached Form 4 Sundry, or new Form 27.

"Final disposition of E&P waste (land treated and disposed onsite, name of licensed disposal facility, recycling, reuse, etc.)":

To be determined, if necessary. Final disposition of any E&P waste will be documented and submitted to COGCC. This includes haul tickets, volume of soil, etc.



Wexpro Company
2221 Westgate Dr.
P.O. Box 458
Rock Springs, WY 82902
Tel (307) 352-7500
Fax (307) 352-7575

Jimmy L. Druce
General Manager
Direct: (307)352-7555
Jimmy.Druce@questar.com

5/19/2016

Kris Neidel
COGCC
1120 Lincoln St., Suite 801
Denver, CO 80203

Pit Maintenance and History in Wexpro Company Hiawatha/Powder Wash fields

Dear Mr. Neidel:

I worked as an Operator/Chief Operator in Colorado's Powder Wash and Hiawatha fields for Wexpro Company between the years of 1984 and 2002. Upon my hiring, Carl Foster, who also worked for Wexpro, taught myself and the other operators procedures for production/water drain pit cleaning/maintenance.

The procedures were as follows; For several years pit with visible oil in them were either burned or soaked with hot water and skimmed. Burning of the pits was standard until regulations prohibited the practice.

When soaking and skimming would occur, hot water would be added to the pits. After the addition of hot water to the pits, the pits were allowed to "soak" for a minimum of 3 hours allowing the oil to separate from the water and come to the surface. After the oil and water separated, the oil would be skimmed off via tanker truck and the pits drained of water. Oil skimmed from the pits would be added to the condensate tanks, and the water would be added to the water tanks or hauled for disposal at a commercial source. This process was repeated continuously until there was no more visible oil in the pits.

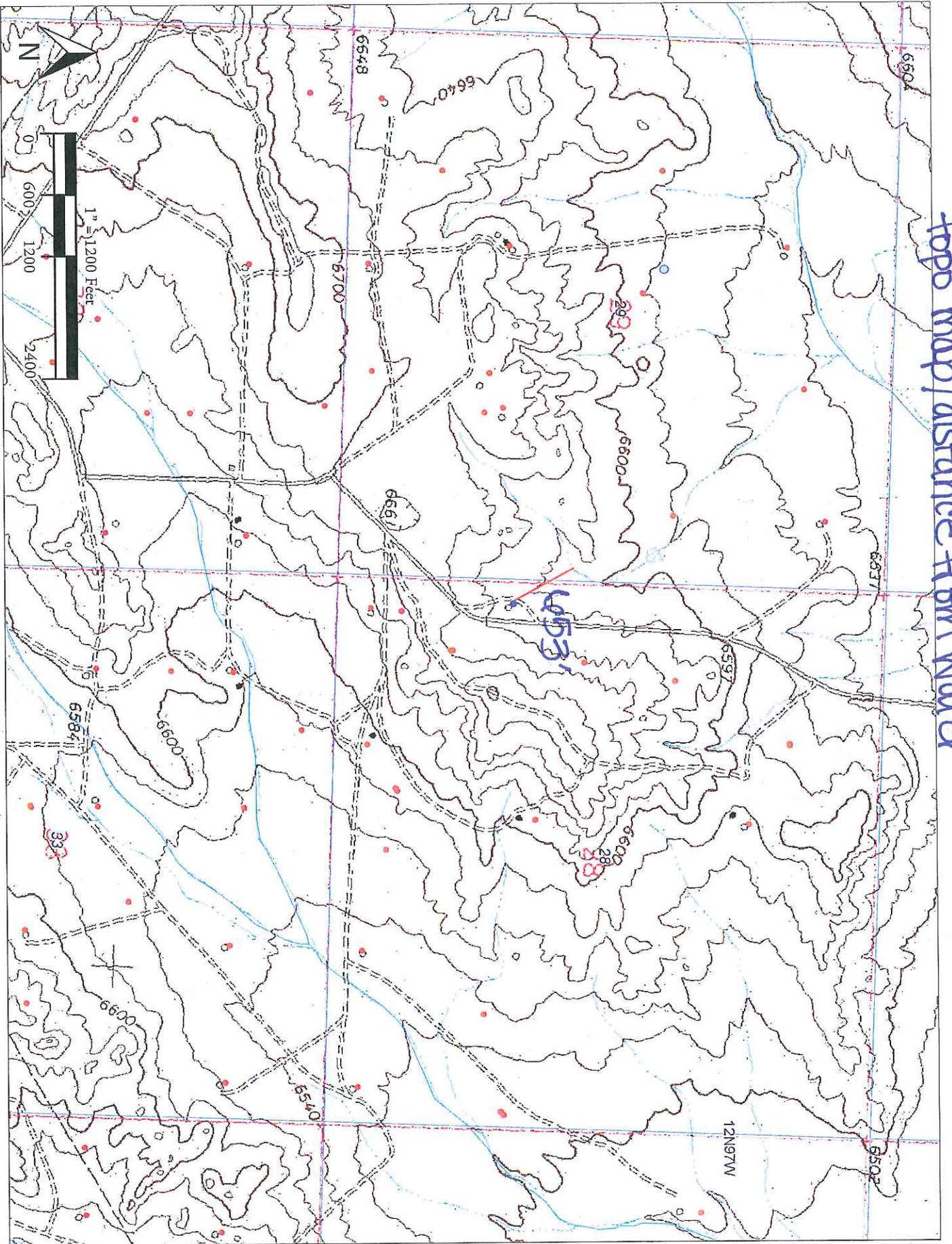
This procedure was passed along during and after my departure from the Hiawatha and Powder Wash fields, and continues to be used today.

Kind regards,

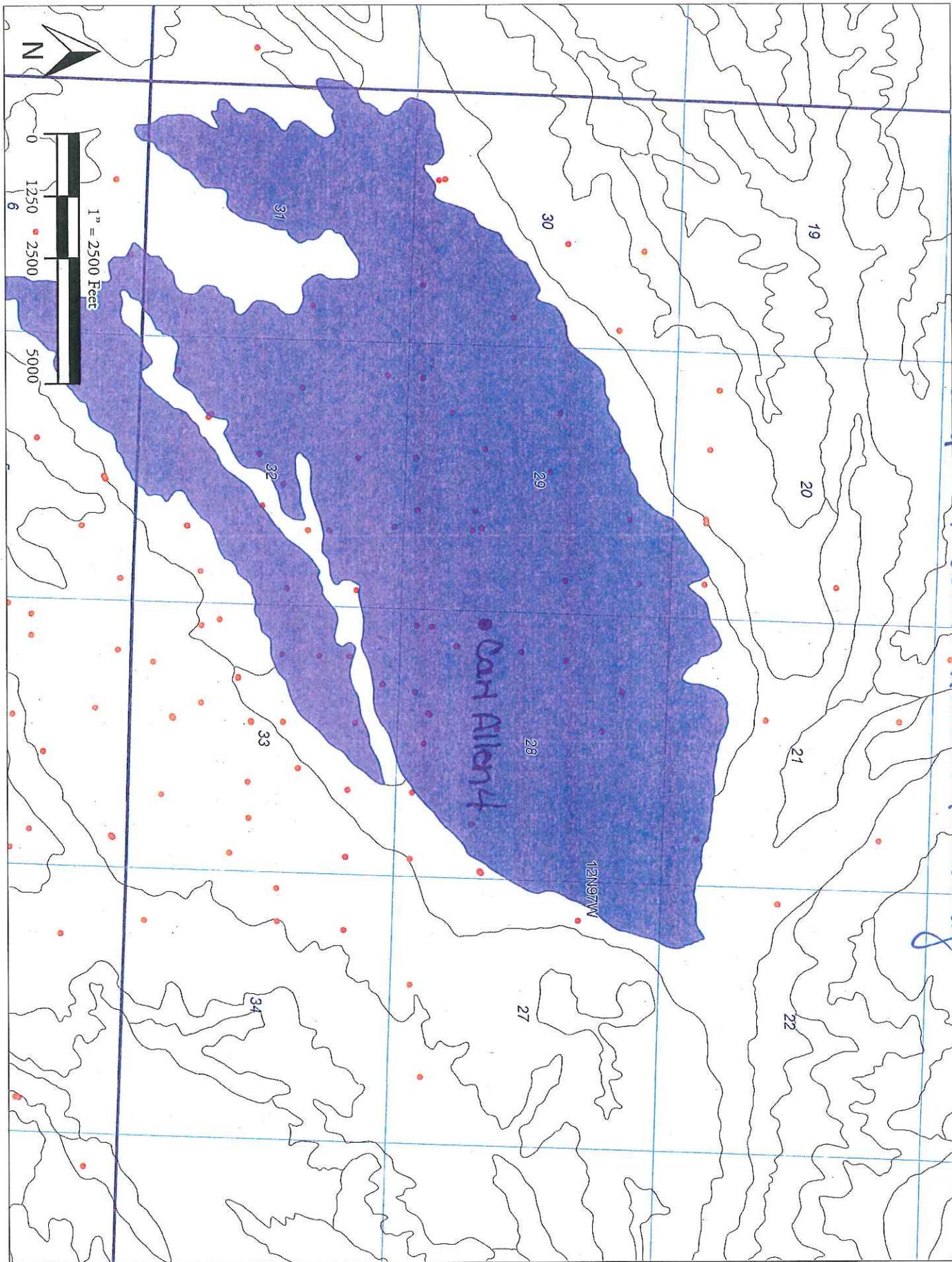
Jimmy Druce
General Manager

For questions, please call April Stegall at 307-352-7561 or 307-371-3610.

topo map / distance from water



Soil map - Tresand-Hattha-Kandau



Carl Allen 4

historic imagery- 2006
Facility ID #100621

open pit

Google earth

Image USDA Farm Service Agency

40.968792, -108.305133

CARL ALLEN 4

62

Legend

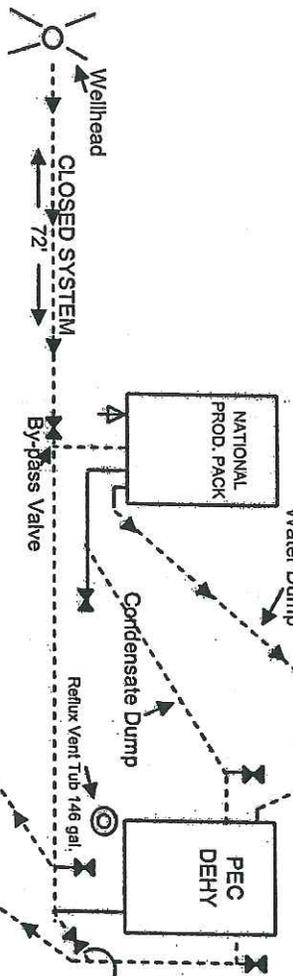
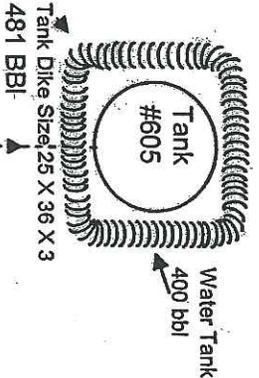
- 40.968792, -108.305133
- CARL ALLEN 4

**proposed sampling points*

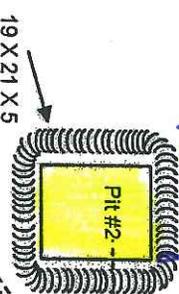
100 ft



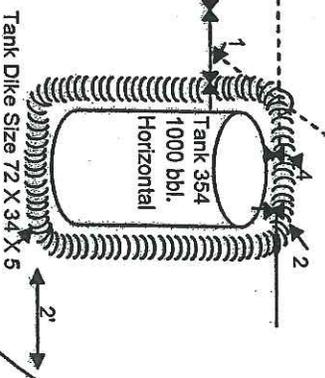
Facility ID# 100021



Facility ID# 100022

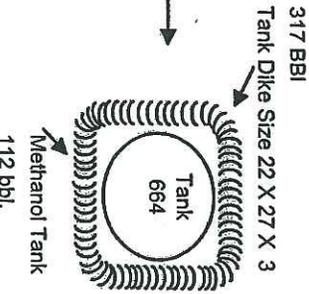


Lateral 133 to North Side & Musser



Moffat County Road 62

Lateral 425 to North Side & High Side

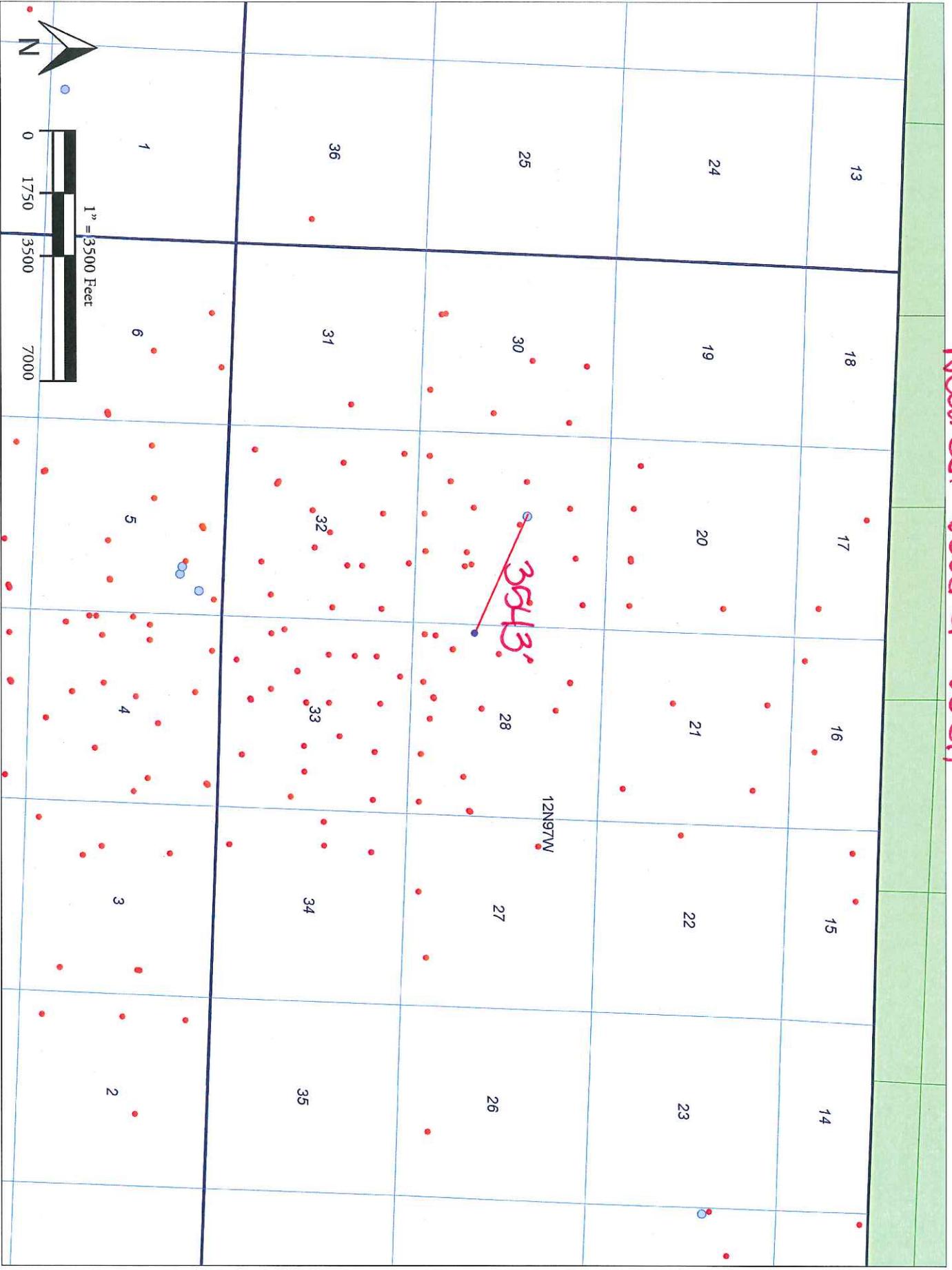


- LEDGEND**
- # Gas Meter
 - ◁ Choke
 - Bull Plug
 - ⊞ Valve

- Valve #1 Sealed open during production - sealed closed during sales
- Valve #2 Sealed closed - open only during sales
- Valve #3 Sealed closed - open only the drain BS&W

CARL ALLEN #4
 NW SW SEC 28-12-97
 C-081267
 WEXPRO CO. OPERATOR

Nearest water well



SPCR

RECEIVED

COLORADO DIVISION OF WATER RESOURCES

APR - 9 1986

818 Centennial Bldg., 1313 Sherman St.
Denver, Colorado 80203

TYPE OR
PRINT IN BLACK INK.
COPY OF ACCEPTED
STATEMENT MAILED
ON REQUEST.

WATER RESOURCES
STATE ENGINEER
AFFIDAVIT

STATE OF COLORADO

COUNTY OF MOFFAT

SS.

- STATEMENT OF BENEFICIAL USE OF GROUND WATER
- AMENDMENT OF EXISTING RECORD
- LATE REGISTRATION

PERMIT NUMBER

LOCATION OF WELL

THE AFFIANT(S) Celsius Energy Company

County Moffat

whose mailing

address is P. O. Box 458

SE

1/4 of the

NW

1/4 Section 29

City Rock Springs, Wyoming 82902

(STATE) (zip)

Twp. 12

N

Rng. 97

W

6th P.M

(IN OR S)

(E OR W)

being duly sworn upon oath, deposes and says that he (they) is (are) the owner(s) of the well described hereon; the well is

located as described above, at distances of 2243 feet from the N section line and 2262 feet from the

(NORTH OR SOUTH)

W section line; water from this well was first applied to a beneficial use for the purpose(s) described herein on the 25

(EAST OR WEST)

day of September, 19 85; the maximum sustained pumping rate of the well is 105 gallons per minute, the pumping

rate claimed hereby is 105 gallons per minute; the total depth of the well is 830 feet; the average annual amount

of water to be diverted is 23 acre-feet; for which claim is hereby made for drilling fluid for an oil/gas

well

purpose(s); the legal description of the land on which the water from this well is used is

SE NW of Section 29, T 12 N, R 97 W

of which

-0- acres are irrigated and which is illustrated on the map on the reverse side of this form; that this well was completed in compliance with the permit approved therefor; this statement of beneficial use of ground water is filed in compliance with law; he (they) has (have) read the statements made hereon; knows the content thereof; and that the same are true of his (their) knowledge.

(COMPLETE REVERSE SIDE OF THIS FORM)

Signature(s)

A. J. Mauer

5-15-92

Subscribed and sworn to before me on this

31st

day of

March

, 1986

My Commission expires

Dec. 7, 1989

J. H. Tott
NOTARY PUBLIC

ACCEPTED FOR FILING BY THE STATE ENGINEER OF COLORADO PURSUANT TO THE FOLLOWING CONDITIONS:

Accepted that those conditions of approval as stated on the permit are complied with. 6-12-92

4-30-86 FOR OFFICE USE ONLY

Court Case No.

Prior. Mo. Day Yr.

Div. 6 Cty. 41

Sec. 1/4 1/4 1/4

Well Use

Dist. 55 Basin Man. Dis.

JUN 12 1992

Hal D. Simpson

Bruce E. DeBunne

DATE

ACTING STATE ENGINEER

BY