



# State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

## Inspection Report

Permit Number:	C0150015
Inspection Type:	PARTIAL
Inspection Date:	Thursday, January 31, 2019
Start Date/Time:	1/31/2019 10:00:00 AM
End Date/Time:	1/31/2019 2:00:00 PM
Last Inspection:	Wednesday, January 23, 2019

Representatives Present During the Inspection:	
OGM	Steve Demczak
Company	Kit Pappas

Inspector: Steve Demczak

Weather: Sunny, 30's, Dry Conditions

InspectionID Report Number: 6347

Accepted by: SCHRISTE

2/14/2019

Permittee: **BRONCO UTAH OPERATIONS, LLC**

Operator: **BRONCO UTAH OPERATIONS, LLC**

Site: **EMERY DEEP MINE**

Address: **PO BOX 527, EMERY UT 84522**

County: **EMERY**

Permit Type: **PERMANENT COAL PROGRAM**

Permit Status: **ACTIVE**

### Current Acreages

473.80	<b>Total Permitted</b>
85.90	<b>Total Disturbed</b>
	<b>Phase I</b>
	<b>Phase II</b>
	<b>Phase III</b>

### Mineral Ownership

- Federal
- State
- County
- Fee
- Other

### Types of Operations

- Underground
- Surface
- Loadout
- Processing
- Reprocessing

### Report summary and status for pending enforcement actions, permit conditions, Division Orders, and amendments:

Mr. Stanfield, call me about an old pipe in the ground exhausting hot air. I met him on Thursday, January 31, 2019. Also I was with Kit Pappas and a person from NRCS and UGS. The pipe was south east of the Emery mine. Mr. Stanfield was thinking that this pipe was mining related to the Emery mine. The inspection revealed the following information. The pipe was located on BLM ground. It was near a outcrop. The pipe did indeed exhaust warm air. Mr. Pappas took a gas reading of the air. It contained carbon monoxide and no oxygen. Mr. Stanfield had a mine map showing that this area was a burn area meaning there was a fire in a coal seam. Mr. Stanfield stated that a friend knew about the fire for 70 years. It is my opinion that this underground fire was caused by spontaneous combustion. No coal mining by the Emery mine has taken place in this area. Therefore, it is not mining related as regards to Emery mine/Bronco mine. Since, this pipe is exhausting deadly flumes, it is my opinion that the pipe should be seal. I will be contacting the Abandon Mine Lands section of the Oil, Gas and Mining. They can determine what steps need to be taken, since they deal with reclamation of abandon mines as their primary job function.

Stephen J. Demczak

Inspector's Signature:

Steve Demczak,  
Inspector ID Number: 39

Date Thursday, February 1, 2019



Note: This inspection report does not constitute an affidavit of compliance with the regulatory program of the Division of Oil, Gas and Mining. telephone (801) 538-5340 • facsimile (801) 359-3940 • TTY (801) 538-7458 • www.ogm.utah.gov

**REVIEW OF PERMIT, PERFORMANCE STANDARDS PERMIT CONDITION REQUIREMENTS**

1. Substantiate the elements on this inspection by checking the appropriate performance standard.
  - a. For COMPLETE inspections provide narrative justification for any elements not fully inspected unless element is not appropriate to the site, in which case check Not Applicable.
  - b. For PARTIAL inspections check only the elements evaluated.
2. Document any noncompliance situation by reference the NOV issued at the appropriate performance standard listed below.
3. Reference any narratives written in conjunction with this inspection at the appropriate performance standard listed below.
4. Provide a brief status report for all pending enforcement actions, permit conditions, Divison Orders, and amendments.

	Evaluated	Not Applicable	Comment	Enforcement
1. Permits, Change, Transfer, Renewal, Sale	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Signs and Markers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Topsoil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.a Hydrologic Balance: Diversions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.b Hydrologic Balance: Sediment Ponds and Impoundments	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.c Hydrologic Balance: Other Sediment Control Measures	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.d Hydrologic Balance: Water Monitoring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.e Hydrologic Balance: Effluent Limitations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Explosives	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Disposal of Excess Spoil, Fills, Benches	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Coal Mine Waste, Refuse Piles, Impoundments	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Noncoal Waste	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Protection of Fish, Wildlife and Related Environmental Issues	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Slides and Other Damage	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Contemporaneous Reclamation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Backfilling And Grading	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13. Revegetation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14. Subsidence Control	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15. Cessation of Operations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16.a Roads: Construction, Maintenance, Surfacing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16.b Roads: Drainage Controls	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17. Other Transportation Facilities	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18. Support Facilities, Utility Installations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
19. AVS check	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20. Air Quality Permit	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21. Bonding and Insurance	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
22. Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Permit Number: C0150015  
Inspection Type: PARTIAL  
Inspection Date: Thursday, January 31, 2019

**Inspection Continuation Sheet**



**Bronco**

UTAH OPERATIONS

P.O. Box 527  
Emery, UT 84522

UTAH STATE MINING PERMIT  
ACT 015-015

M.S.H.A. ID 42-00079  
PHONE 435-286-2447

**ALL VISITORS MUST  
REGISTER AT MINE OFFICE**













TOP SOIL  
Soil Sample #1  
Soil Sample #2

## Kit Pappas

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**From:** John A. Gefferth <JGefferth@barr.com>  
**Sent:** Thursday, January 10, 2019 11:05 AM  
**To:** 'Rich White'  
**Cc:** Kit Pappas (jpappas@broncoutah.com)  
**Subject:** RE: FW: Stansfield Holes

You are a poet!

John A. Gefferth

Senior Mining Environmental Consultant  
Salt Lake City, UT office: 801.333.8425  
cell: 314.304.8328  
JGefferth@barr.com  
www.barr.com



If you no longer wish to receive marketing e-mails from Barr, respond to [communications@barr.com](mailto:communications@barr.com) and we will be happy to honor your request.

**From:** Rich White <rich@rbwhitepe.com>  
**Sent:** Thursday, January 10, 2019 10:58 AM  
**To:** John A. Gefferth <JGefferth@barr.com>  
**Subject:** Re: FW: Stansfield Holes

John:

Based on my re view, I offer the following:

- The current (Emery 2 portal) mine works closest to the sink holes are located approximately 0.74 mile to the northeast. The old mine works (Emery portal) closest to the sink holes are located about 0.82 mile to the northeast. Plate VI-6 indicates that this old area was mined in 1981.
- At the location of the current (Emery 2 portal) mine works, Plate V-20 indicates that the elevation of the top of the I seam is about 5750 feet. Data from Google Earth indicate that the surface elevation above the western extent of these mine works is about 5960 feet, indicating a cover depth of about 200 feet.
- Plate V-20 indicates that the top of the I seam at the location of the sink holes is at an elevation of about 5550 feet. Data from Google Earth indicates that the ground surface at the sink holes is at an elevation of about 6000 feet. Thus, the depth of cover at the sink holes is about 450 feet.
- The drillhole log from the "AA" wells indicates that the cover over the coal consists of approximately 120 feet of sandstone, with interfingered thin lenses of shale, overlain by shale. The cover at the sink holes is approximately 200 feet thicker than at the "AA" wells. Plate 2 from USGS Water Supply Paper 2195 indicates that the thickness of the Ferron Sandstone increases slightly to the west between the "AA" wells the the sink hole location, suggesting that the majority of the increased cover between these two locations is likely composed predominantly of shale from the Blue Gate Member of the Mancos Shale.



# MOTT CORE DRILLING COMPANY

MAIN OFFICE

HUNTINGTON, W. VA.

## DIAMOND CORE DRILL HOLE RECORD

FOR Kommerer Coal Co.      ADDRESS Frontier, Wyoming      DATE May 11,      1963

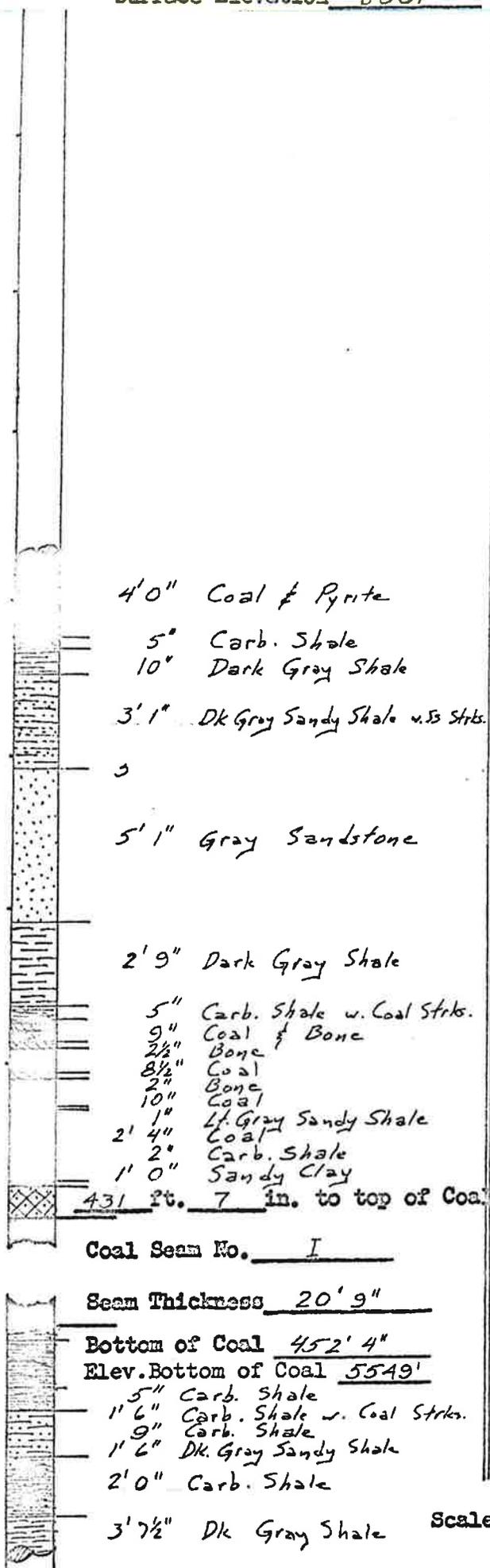
ON                                  NEAR Emery                                  COUNTY Emery                                  STATE Utah

HOLE No. 8      EL. 6001      DRILLER J. C. Jackson      DRILL No.

CLASSIFICATION	THICKNESS OF STRATA		DEPTH FROM SURFACE	
	FEET	INS. ±FR	FEET	INS. ±FR
Sandy Top Soil w/layer of Black Shale	37	0	37	0
Dark Gray Shale - Mancus (contact at 303.0')	266	0	303	0
Lt. Gray to Dk. Gray Sandstone	1	6	304	6
Lt. Gray to White Coarse Grain Sandstone	11	11	316	5
Dk. Gray Shale	0	11	317	4
Lt. Gray Shite Sandstone Coarse Grain	3	5	320	9
Lt. Gray Med. Grain Sandstone	3	4	324	1
Gray Med. Grain Sandstone	14	1	338	2
Lt. Gray Coarse Sandstone	4	3	342	5
Gray Med. to Coarse Grain Sandstone	2	7	345	0
Lt. Gray Med. to Fine Grain Sandstone w/D. Shale	34	1	379	1
Gray Sandstone	4	1	383	2
Interlocated Thin Beds of Coal & Sandstone	0	3	383	5
Coal - Irregular Sandy Inclusions	1	4	384	9
Coal - Fractured	2	0	386	9
Bone	0	1	386	10
Coal - - - - -	0	1 <sup>1</sup> / <sub>2</sub>	386	10 <sup>1</sup> / <sub>2</sub>
Carbonous Shale	2	1 <sup>1</sup> / <sub>2</sub>	389	0
Dk. Gray to Black Shale w/ Fossils	4	9	393	9
Dk. Gray Shale	1	0	394	9
Dk. Gray to Black Shale w/ Fossils	0	3	395	0
Dk. Gray Shale Highly Fossiled	0	10	395	10
Dk. Gray Shale to Carbonous Shale	1	0	396	10
Coal - - - - -	1	4	398	2
Carbonous Shale	0	10	399	0
Clay	0	9	399	9
Carbonous Shale	0	3	400	0
Coal - - - - -	2	6	402	6
Carbonous Shale w/Pyrite Inclusions	1	1	403	7
Coal - - - - -	0	2	403	9
Carbonous Shale w/some Inclusions of Coal	0	6 <sup>1</sup> / <sub>2</sub>	404	3 <sup>1</sup> / <sub>2</sub>
Coal w/ Pyrite Inclusions	0	1	404	4 <sup>1</sup> / <sub>2</sub>
Carb. Shale w/ Incl. of Coal	1	6 <sup>1</sup> / <sub>2</sub>	405	11
Coal & Pyrite Laminates	2	3	408	2
Carb. Shale	0	7	408	9
Coal Pyrite Laminated	4	0	412	9
Carb. Shale	0	5	413	2
Dk. Gray Shale	0	10	414	0
Dk. Gray Sandy Shale w/Beds of Sandstone	3	1	417	1
Gray Fine Grain Sandstone	5	1	422	2

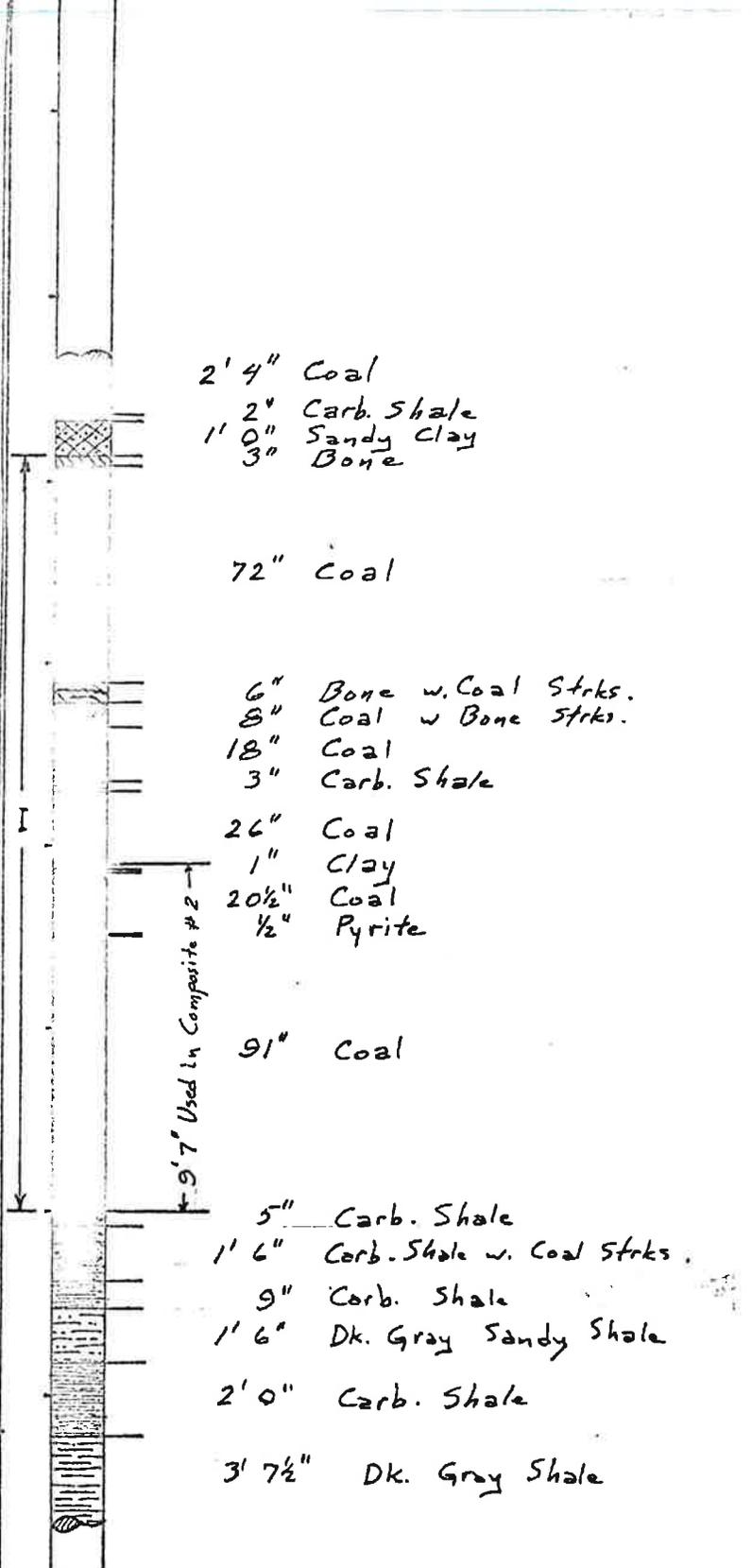
STARTED                                  19

COMPLETED                                  19



4'0" Coal & Pyrite  
 5" Carb. Shale  
 10" Dark Gray Shale  
 3'1" Dk Gray Sandy Shale w. ss Strks.  
 5'1" Gray Sandstone  
 2'9" Dark Gray Shale  
 5" Carb. Shale w. Coal Strks.  
 9" Coal & Bone  
 2 1/2" Bone  
 8 1/2" Coal  
 2" Bone  
 10" Coal  
 1" Lt. Gray Sandy Shale  
 2'4" Coal  
 2" Carb. Shale  
 1'0" Sandy Clay  
 431 ft. 7 in. to top of Coal

Coal Seam No. I  
 Seam Thickness 20'9"  
 Bottom of Coal 452'4"  
 Elev. Bottom of Coal 5549'  
 5" Carb. Shale  
 1'6" Carb. Shale w. Coal Strks.  
 9" Carb. Shale  
 1'6" Dk. Gray Sandy Shale  
 2'0" Carb. Shale  
 3'7 1/2" Dk Gray Shale

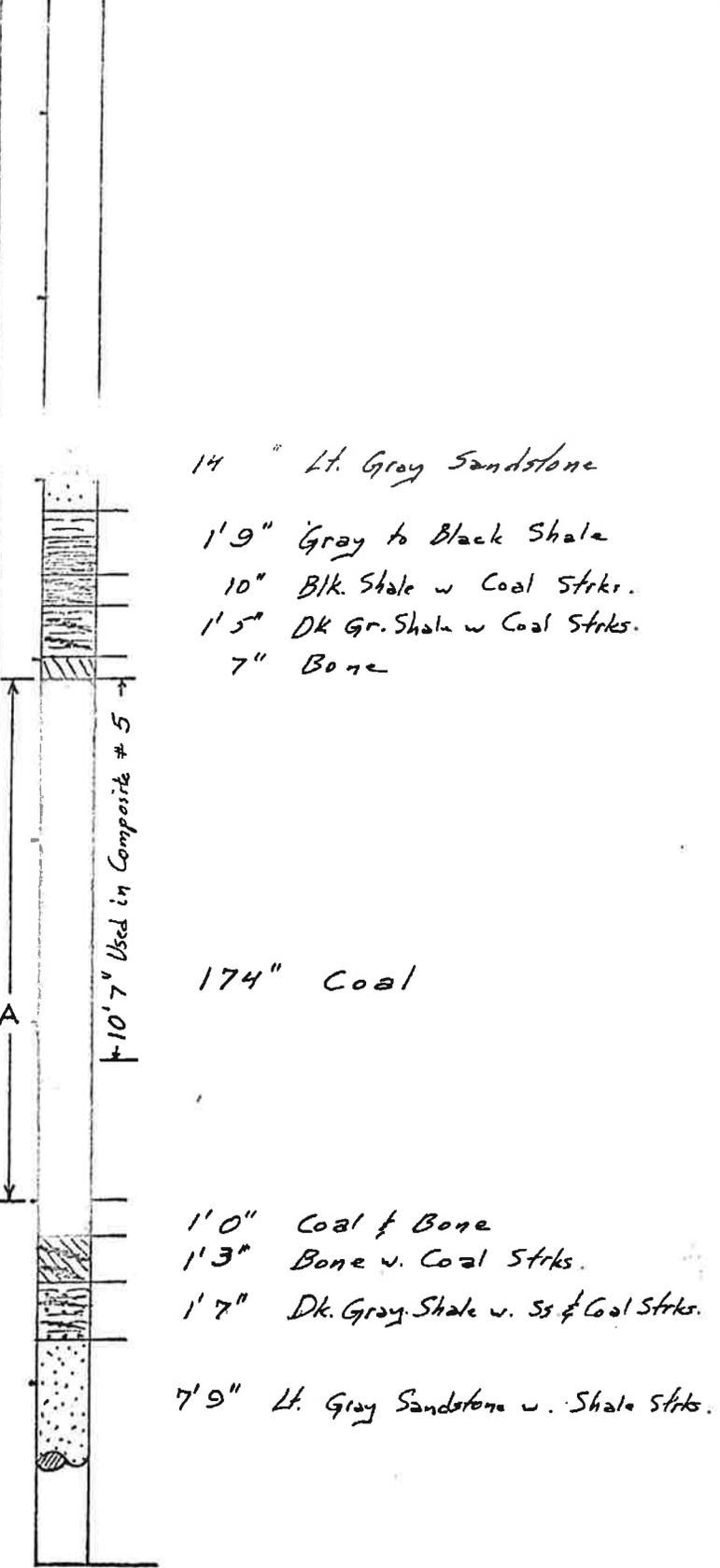
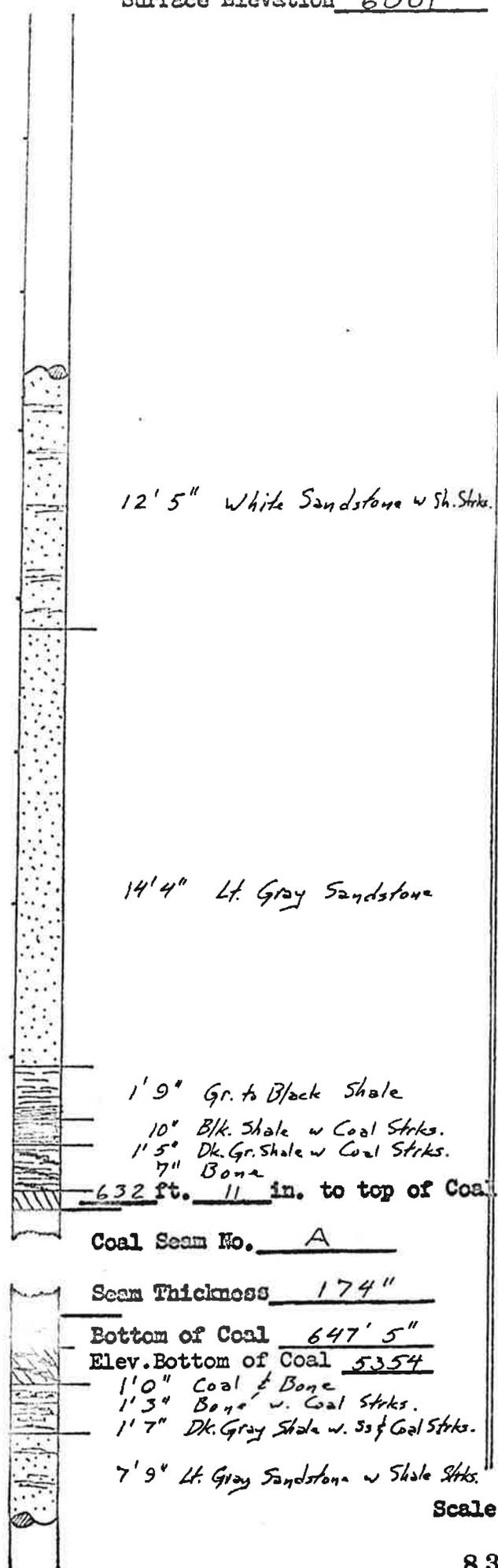


2'4" Coal  
 2" Carb. Shale  
 1'0" Sandy Clay  
 3" Bone  
 72" Coal  
 6" Bone w. Coal Strks.  
 8" Coal w. Bone Strks.  
 18" Coal  
 3" Carb. Shale  
 26" Coal  
 1" Clay  
 20 1/2" Coal  
 1/2" Pyrite  
 91" Coal  
 5" Carb. Shale  
 1'6" Carb. Shale w. Coal Strks.  
 9" Carb. Shale  
 1'6" Dk. Gray Sandy Shale  
 2'0" Carb. Shale  
 3'7 1/2" Dk. Gray Shale

Total Seam Thickness 20'9"  
 DETAIL COAL SECTION, SEAM NO. I  
 Farm \_\_\_\_\_  
 Loc. G-19 S. 6 T. 235 R. 6E  
 County Emery State Utah

Scale 1" = 5'

Surface Elevation 6001'



DETAIL COAL SECTION, SEAM NO. A

Farm \_\_\_\_\_

Loc. G-19 S. 6 T. 235 R. 6E

County Emery State Utah

Scale 1"=5'

8343015490

N. 187850.01  
E. 2062336.01

sec. 6  
Tp. 23S  
Rg. 6E

Loc: Emery Date: 5-23-74 Pilot: \_\_\_\_\_ Core: \_\_\_\_\_  
 State: Utah Shift: \_\_\_\_\_ Hole No. EC-299 CR  
 County: Emery Rig: \_\_\_\_\_ Hole Elev. 6005.72

Core Recovery (Thickness)	From	To	Sample Description	Seam	Comments
168.5	0	168.5	Shale, drk grey		
32.5	168.5	201.0	Sandstone		
13.0	201.0	214.0	Sandstone, calc, lt grey, hard		Hole Cored
1.25	214.0	215.25	Sandstone, calc, hard, shaley		From
	20215.25	215.45	Bone		201.0 to 531.0
.30	215.45	215.75	Shale, carb, boney		
1.70	215.75	217.45	Shale, drk grey, soft		
1.55	217.45	219.0	Coal		
1.10	219.0	220.1	Shale, drk grey, soft		
.90	220.1	221.0	Siltstone, sandy, hard		
10.0	221.0	231.0	Sandstone, Lt grey, hard		
47.6	231.0	278.6	Sandstone, calc, hard		
.50	278.6	279.1	Coal		
1.20	279.1	280.3	Shale, carb, coaly		
.70	280.3	281.0	Shale, boney		
.10	281.0	281.1	Coal		
.10	281.1	281.2	Siltstone, carb, black		
.30	281.2	281.5	Coal		
.25	281.5	281.75	Bone		
1.20	281.75	282.95	Coal		
.15	282.95	283.1	Shale, carb, clayey		
2.25	283.1	285.35	Shale, clayey		
1.65	285.35	287.0	Siltstone, calc, sandy		
1.55	287.0	288.55	Shale, clayey, soft		
.45	288.55	289.0	Coal	J	
.85	289.0	289.85	Siltstone, calc, hard	J	
1.15	289.85	291.0	Shale, drk grey, calc, silty	J	
3.9	291.0	294.9	Coal	J	
.55	294.9	295.45	Bone	J	
.95	295.45	296.4	Coal	J	
.40	296.4	296.8	Bone	J	
4.7	296.8	301.5	Coal	J	

Footage Drilled w/Air \_\_\_\_\_ Total Footage Cored \_\_\_\_\_  
 Footage Drilled w/Water \_\_\_\_\_ Total Footage Recovered \_\_\_\_\_  
 amt Water Used \_\_\_\_\_ Drilling Media \_\_\_\_\_

From \_\_\_\_\_ To \_\_\_\_\_ Hrs. \_\_\_\_\_ Foreman: \_\_\_\_\_ Driller: Krug  
 Co. Rep. on Job: Ed Kuhn Title \_\_\_\_\_ Helpers: \_\_\_\_\_



N. 188731.60

E. 2060966.94



Sec. 6  
Tp. 23S  
Rg. 6E

Project: Emery Date: 6-23-74 Pilot: \_\_\_\_\_ Core: \_\_\_\_\_

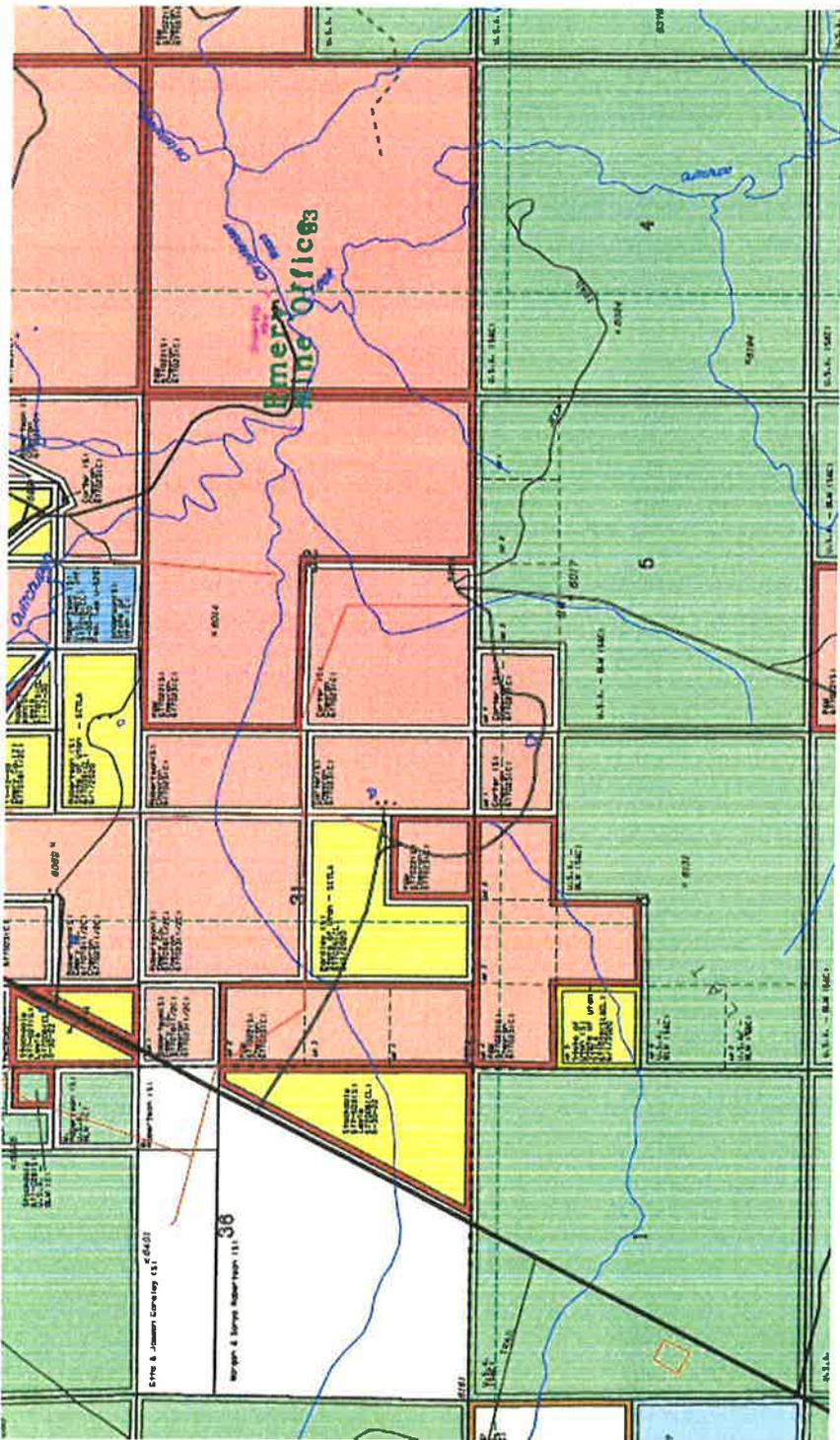
State: Utah Shift: \_\_\_\_\_ Hole No. FC-345 P

County: Emery Rig: \_\_\_\_\_ Hole Elev. 6010.76

Core Recovery (Thickness)	From	To	Sample Description	Seam	Comments
38.0	0	38.0	Siltstone		
252.0	38.0	290.0	Shale		
28.6	290.0	318.6	Sandstone		
5.7	318.6	324.3	Shale		
8.7	324.3	333.0	Sandstone		
49.4	333.0	382.4	Lost circulation		
2.8	382.4	385.2	Coal		
10.8	385.2	396.0	Shale		
1.5	396.0	397.5	Coal		
2.5	397.5	400.0	Parting		
1.8	400.0	401.8	Coal		
4.2	401.8	406.0	Shale		
1.6	406.0	407.6	Coal		K
1.1	407.6	408.7	Parting		K
2.2	408.7	410.9	Coal		K
.2	410.9	413.1	Shale		
3.2	413.1	416.3	Sandstone		
7.7	416.3	424.0	Shale		
4.5	424.0	428.5	Coal		J
1.5	428.5	430.0	Shale		
5.9	430.0	435.9	Coal		I
1.3	435.9	437.2	Shale		I
12.8	437.2	450.0	Coal		I
4.4	450.0	454.4	Shale		
49.6	454.4	504.0	Sandstone		
4.1	504.0	508.1	Shale		
11.9	508.1	520.0	Sandstone		
7.3	520.0	527.3	Shale		
4.9	527.3	532.2	Coal		G
5.0	532.2	537.2	Parting		
1.3	537.2	538.5	Coal		
30.2	538.5	568.7	Shale		

Footage Drilled w/Air _____	Total Footage Cored _____
Footage Drilled w/Water _____	Total Footage Recovered _____
Water Used _____	Drilling Media _____

From _____ To _____ Hrs. _____	Foreman: _____ Driller: <u>Daniels</u>
Co. Rep. on Job <u>Ed Kuhn</u> Title _____	Helpers: _____



Eric & Joanne Curvey, 15

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Emerging Office

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Dainton

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# Bill Stansfield Farm - Subsidence Areas

Created by Wayne Urie

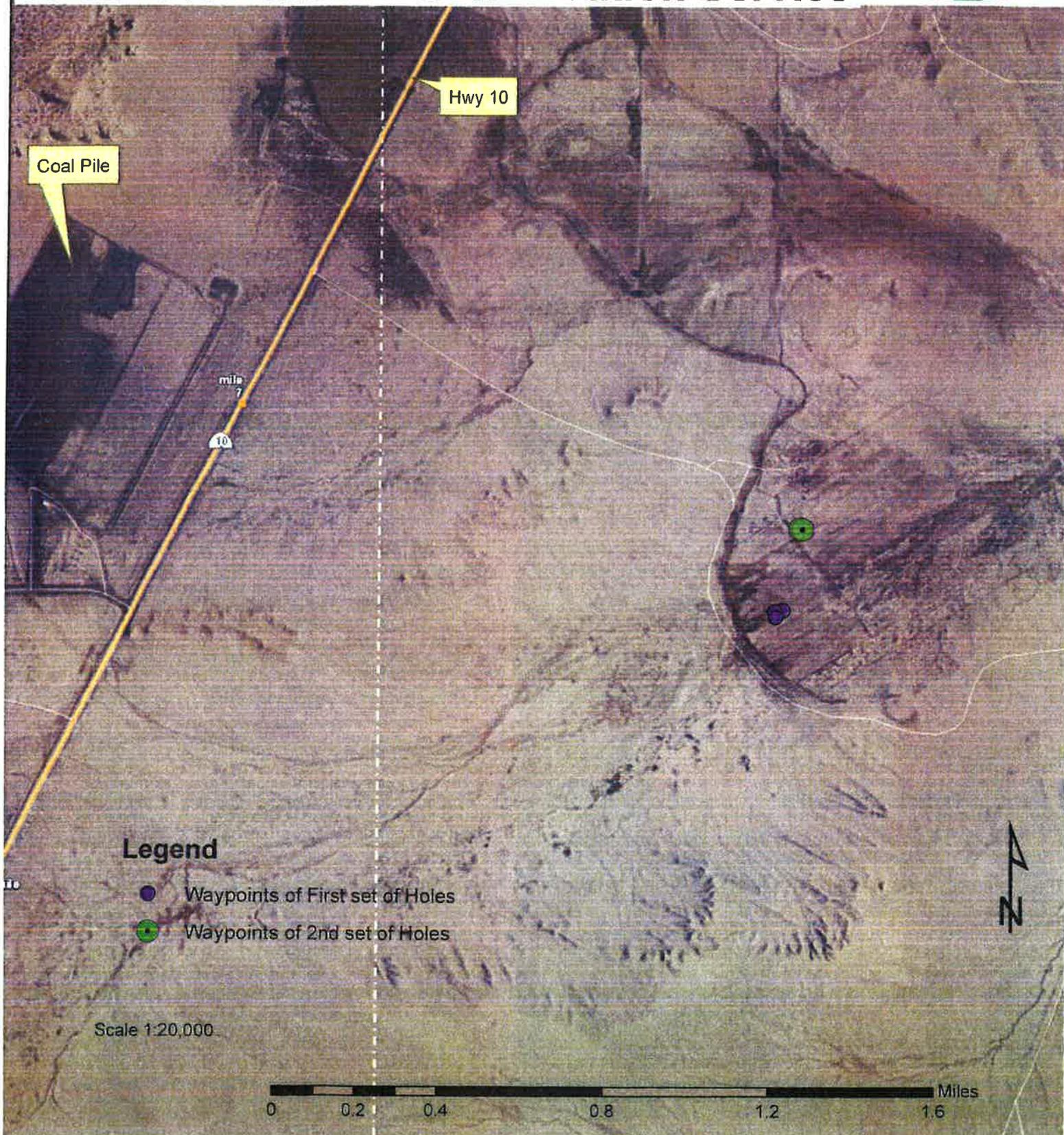
January 24, 2019



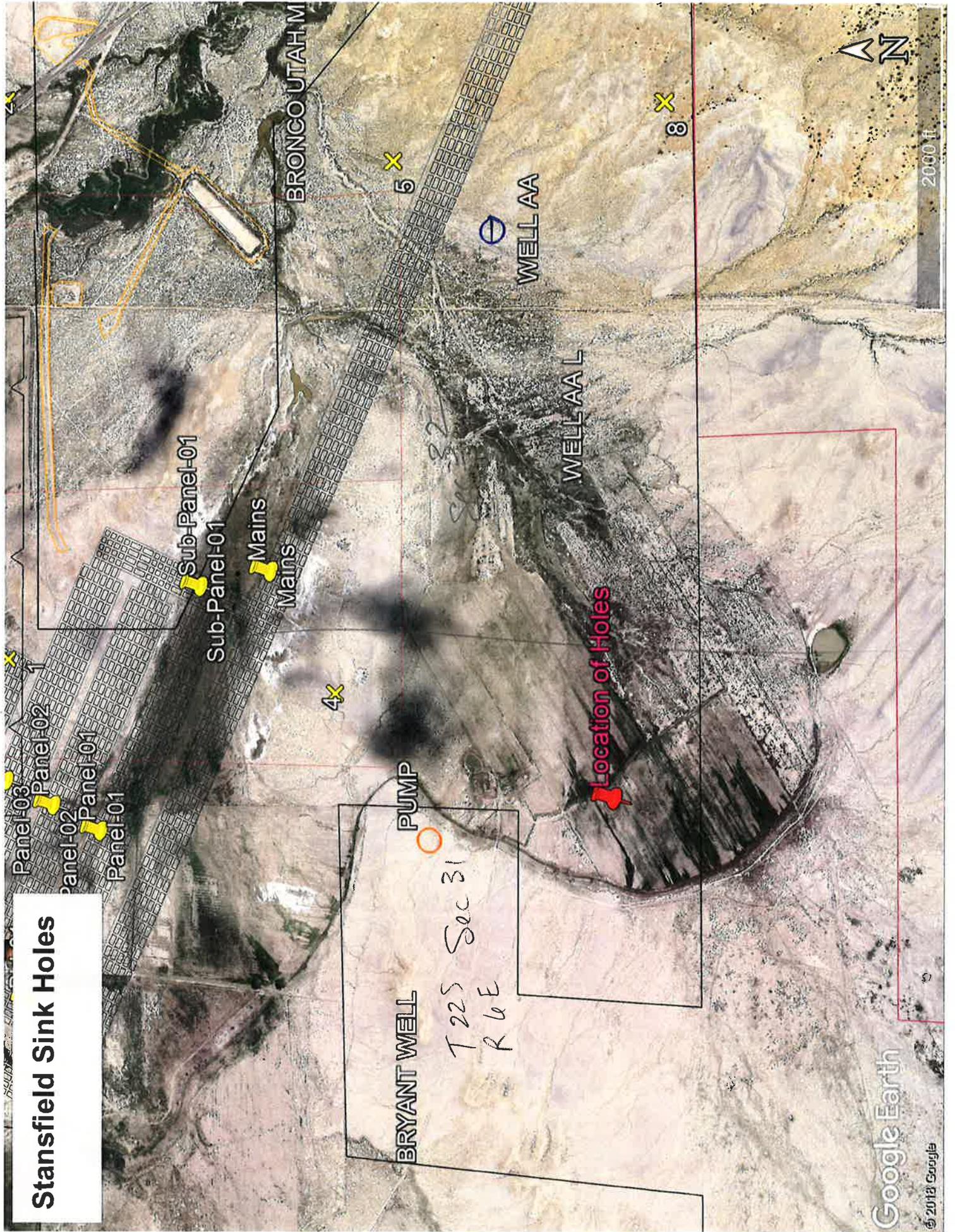
United States  
Department of  
Agriculture



Natural Resources Conservation Service



# Stansfield Sink Holes





# Location of Holes

