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# Annual Report

This Annual Report shows information the Division has for your mine. Submit the completed document and any additional information identified in the Appendices to the Division by the date specified in the cover letter. During a complete inspection an inspector will check and verify the information.

## GENERAL INFORMATION

Company Name	Andalex Resources INC	Mine Name	Centennial Mine
Permit Number	C/007/0019	Permit expiration Date	2-4-17
Operator Name	Andalex Resources, INC	Phone Number	+1 (435) 888-4000
Mailing Address	PO Box 910	Email	kmadsen@coalsource.com
City	East Carbon		
State	UT	Zip Code	84520

## DOG M File Location or Annual Report Location

Excess Spoil Piles	<input type="checkbox"/> Required <input checked="" type="checkbox"/> Not Required	
Refuse Piles	<input type="checkbox"/> Required <input checked="" type="checkbox"/> Not Required	
Impoundments	<input checked="" type="checkbox"/> Required <input type="checkbox"/> Not Required	Annual pond certifications included.
Other:		

## OPERATOR COMMENTS

Tower Mine was inactive during 2014

## REVIEWER COMMENTS

Met Requirements     Did Not meet Requirements

# COMMITMENTS AND CONDITIONS

The Permittee is responsible for ensuring annual technical commitments in the Mining and Reclamation Plan and conditions accepted with the permit are completed throughout the year. The Division has identified these commitments below and has provided space for you to report what you have done during the past year for each commitment. If additional written response is required, it should be filed as an attachment to this report.

## Title: FIRE SUPPRESSION

**Objective:** Andalex will commit to prevent, control and suppress range forest and coal fires within the permit area.

**Frequency:** To the extent possible

**Status:** Ongoing

**Reports:** Report if range fires have occurred on the permit area during the year.

**Citation:** Volume 1, Chapter 3, page 3-10, paragraph 5

Operator Comments

No range fires occurred on the permit area during 2015.

Reviewer Comments  Met Requirements  Did Not Meet Requirements

## Title: SUBSIDENCE MONITORING

**Objective:** Determine subsidence effects from mining.

**Frequency:** Annually

**Status:** Ongoing

**Reports:** Provide annual subsidence monitoring data **and MAP** and report of impacts in annual report.

**Citation:** Volume 1, Chapter 5, Page 5-150a, 5-151.

Operator Comments

Subsidence information is included.

Reviewer Comments  Met Requirements  Did Not Meet Requirements

**Title: GAS VENT HOLE STATUS UPDATE**

**Objective:** To keep the Division apprised of the status of all wells drilled above the Aberdeen mine including any future venting of existing wells and / or development of non GVH pads and to ensure that reclamation of each disturbance is accomplished in a timely manner once the wells are no longer in use. "Provide a spreadsheet showing the progress of reclamation at each drill pad, indicating the date of interim or final grading; the date of seeding and mulching; stating whether the well is still producing; stating whether there is Blue Tip equipment (solar arrays, valves) still on site.

**Please comment on the status of plugging wells and removal of Blue Tip Energy equipment from these sites.**

**The landowner requested that final reclamation include construction of water bars on the road down to GVH 13. Please comment on the status of water bar construction.**

**App. X Section 341.200 states that wood fiber mulch is to be applied on top of the seed with hydroseeding equipment at the rate of 2,000 lbs/ac and anchored with a tackifier. Where work differed from this plan, please comment on the type and rate of mulch applied to each site.**

**Roads constructed to GVH 4, GVH 5A, GVH 6, GVh 8, GVH 8A, GVH 11, GVH 12, GVH 16, and GVH 17 will be reclaimed as shown on Figure 1-1. Please comment on the status of road reclamation.**

**Frequency:** Annually

**Status:** Ongoing

**Reports:** Annual report item

**Citation:** Appendix X, page 1-2

Operator Comments

GVH update included. No changes in 2015. Water bar construction and all road reclamation will be completed upon final reclamation of the GVH Pads. No road reclamation was done in 2015.

Reviewer Comments  Met Requirements  Did Not Meet Requirements



# FUTURE COMMITMENTS AND CONDITIONS

The following commitments are not required for the current annual report year, but will be required by the permittee in the future as indicated by the "status" field. These commitments are included for information only, and do not currently require action. If you feel that the commitment is no longer relevant or needs to be revised, please contact the Division.

**Title: SAGE GROUSE NEST SITE EVALUATION**

**Objective:** Prior to development of the well site, a Sage Grouse nest site evaluation will be conducted by a knowledgeable wildlife biologist. If nests are located, an alternative drill site location will be determined.

**Frequency:** Based on the need to drill additional de-gas wells.

**Status:** Required in future if new de-gas wells are proposed.

**Reports:** Send with application

**Citation:** Appendix X, Chapter 3, page 3-5, paragraph 1

**Title: RECLAMATION SUCCESS**

**Objective:** Determine reclamation success.

**Frequency:** Reclaimed areas will be qualitatively monitored monthly for the first two growing seasons following reclamation. Quantitative veg analysis will be completed in years 5, 9 and 10. In year 7, a consultation with DOGM will determine if an additional inventory might be necessary.

**Status:** Check at reclamation.

**Reports:** When monitoring commences.

**Citation:** Appendix X, Chapter 3, page 3-17.

**Title: RECLAMATION ENHANCEMENT MEASURES**

**Objective:** Andalex will consult with the Division of Wildlife Resources, at the time of final reclamation, to determine exactly what reclamation designs, planting arrangements, and artificial structures would best enhance wildlife habitat.

**Frequency:** Once

**Status:** Will be required prior to final reclamation

**Reports:** Report reclamation plans to Division for incorporation into MRP

**Citation:** Volume 1, Chapter 3, page 3-23, paragraph 1

**Title: SEALING OF WELLS**

**Objective:** Permanent closure of wells using measures required by the Division to prevent access and contamination of groundwater.

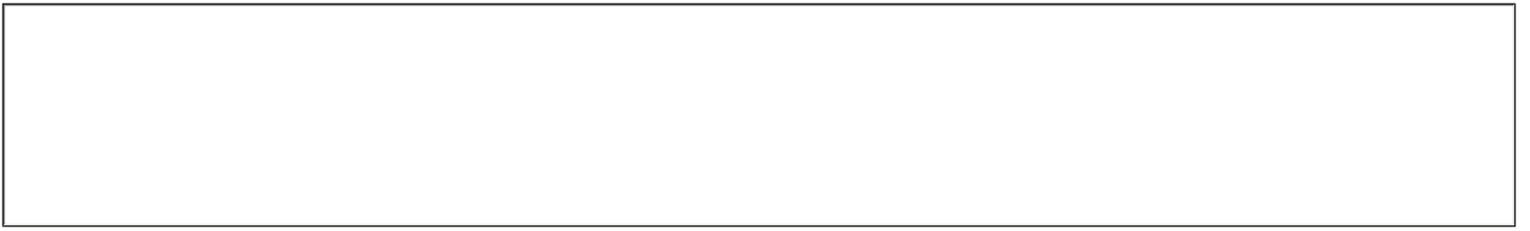
**Frequency:** When wells are no longer needed.

**Status:** Throughout mining

**Reports:** Report in Annual report the year when wells are completed.

**Citation:** Gob Gas Vent Wells: Appendix X R645-301.542.700 All other exploration and water wells: MRP - 301.529.100 301.755

**OPERATOR COMMENTS (Optional)****REVIEWER COMMENTS:**



Text

## REPORTING OF OTHER TECHNICAL DATA

Please list other technical data or information that was not included in the form above, but is required under the approved plan, which must be periodically submitted to the Division.

Please list attachments:

Reviewer Comments

# MAPS

Copies of mine maps, current and up-to-date, are to be provided to the Division as an attachment to this report in accordance with the requirements of R645-301-525.240. The map copies shall be made in accordance with 30 CFR 75.1200 as required by MSHA. Mine maps are not considered confidential.

Map Name	Map Number	Included		Confidential	
		Yes	No	Yes	No
Mine Map	Included	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Reviewer Comments  Met Requirements  Did Not Meet Requirements

## Gob Vent Hole Status

### 2015 Annual Report

#### **GVH #1**

Drilled in 2005. Because GVH #1 was never included in the OSO agreement, and this hole was not considered necessary for future ventilation of the mine operation, it was plugged and the surface pad was reclaimed in 2009. In 2016 the five year vegetation inventory will be conducted and the GVH hole will enter into year five of the ten year reclamation clock.

#### **GVH #2**

Never drilled, not permitted, no disturbance, eliminated from consideration.

#### **GVH #3**

Drilled in 2005. Currently in production, or capable of production by OSO/Blue Tip. Hole has drill collar with valves, telemetry tower, three solar cells with controller box, telephone pole, vertical CMP drain and condenser-cooper structure. Site has been top-soiled, pocked, and seeded.

#### **GVH #4**

Drilled in 2005. Hole has drill collar with valves, telemetry tower, three solar cells with controller box. Telephone pole, some fencing structure, and condenser-cooler structure. Site has been top-soiled, pocked, and seeded.

#### **GVH #5**

Drilled in 2005. Because GVH #5 was never included in the OSO agreement, and this hole was not considered necessary for future ventilation of the mine operation, it was plugged and the surface pad was reclaimed in 2009. In 2016 the five year vegetation inventory will be conducted and the hole will enter into year five of the ten year reclamation clock.

#### **GVH #5A**

Drilled in 2006. Has a drill collar with valve. Site has been top-soiled, pocked, and seeded.

#### **GVH #5B**

Permitted but never drilled, no pad preparation. Eliminated from consideration. However was considered in the bonding

## **GVH #6**

Drilled in 2005. Hole has drill collar with valves, telemetry tower, three solar cells with controller box, telephone pole, vertical CPM drain, and condenser-cooler structure. Site has been top-soiled, pocked, and seeded. Site was sprayed for cheat grass in early 2014 and re-seeded.

## **GVH #7**

Drilled in 2006. Currently in production or capable of production by OSO/Blue Tip. Hole has drill collar with valves, telemetry tower, three solar cells with controller box, vertical CMP drain, and condenser-cooler structures. Site has been top-soiled, pocked, and seeded.

## **GVH #7A**

Drilled in 2006 from GVH pad #7. On same pad as 7. Has drill collar with valves, surrounded by cattle fencing. Site has been top-soiled, pocked, and seeded.

## **GVH #8**

Drilled in 2006. Hole has drill collar with valves, telemetry tower, three solar cells with controller box and condenser-cooler structure. Site has been top-soiled, pocked, and seeded.

## **GVH #8A**

Drilled in 2006. Currently in production or capable of production by OSO/Blue Tip. Hole has drill collar with valves, telemetry tower, three solar cells with controller box and vertical CMP drain. Site has been top-soiled, pocked, and seeded.

## **GVH #9**

Drilled in 2006. Currently in production or capable of production by OSO/Blue Tip. Hole has drill collar with valves, telemetry tower, three solar cells with controller box, vertical CMP drain, and condenser-cooler structures. Site has been top-soiled, pocked, and seeded.

## **GVH #10**

Permitted but never drilled, no pad preparation. Eliminated from consideration, however was considered in the bonding.

## **GVH 10A**

Permitted by never drilled, no pad preparation. Eliminated from consideration.

## **GVH #11**

Drilled in 2008. Was considered in the bonding. Currently in production or capable of production by OSO/Blue Tip. Hole has drill collar with valves, telemetry tower, three solar cells with controller box, and vertical CMP drain. Site has been top-soiled, pocked, and seeded.

**GVH #11A**

Proposed, conditionally approved but never drilled. No bonding.

**GVH #12**

Drilled in 2008. This GVH is no longer needed for future ventilation and was never tied into the ventilation network, was plugged in July of 2014, as per the approved BLM plugging plan. The collar and all valves were removed and the pipe cut off at 18" below ground level. This GBH was fenced and re-seeded to augment existing vegetation in September of 2014. This site is eligible for Phase I Reclamation. The 10 year clock was not started in order to keep GVHs 12-17 on the same reclamation clock, however was considered in the bonding.

**GVH #12A**

Proposed, conditionally approved but never drilled. No bonding.

**GVH #13**

Drilled in 2008. This GVH is no longer needed for future ventilation and was never tied into the ventilation network, was plugged in July of 2014, as per the approved BLM plugging plan. The collar and all valves were removed and the pipe cut off at 18" below ground level. This GBH was fenced and re-seeded to augment existing vegetation in September of 2014. Before this site is eligible for Phase I Reclamation, the vertical culvert (water drain) needs to be removed. Once removed the 10 year reclamation clock can start. Was considered in bonding.

**GVH #13A**

Proposed, conditionally approved but never drilled. No bonding.

**GVH #14**

Drilled in 2008. This GVH is no longer needed for future ventilation and was never tied into the ventilation network, was plugged in July of 2014, as per the approved BLM plugging plan. The collar and all valves were removed and the pipe cut off at 18" below ground level. This GBH was fenced and re-seeded to augment existing vegetation in September of 2014. This site is eligible for Phase I Reclamation. The 10 year clock was not started in order to keep GVHs 12-17 on the same reclamation clock, however was considered in the bonding.

**GVH #14A**

Proposed, conditionally approved but never drilled. No bonding.

**GVH #15**

The drilling pad was prepared but the hole was never drilled. This GVH was fenced and re-seeded to augment existing vegetation in September of 2014. Before it is eligible for Phase I reclamation, the vertical culvert (water drain) needs to be removed. Once removed, the 10 year reclamation clock can start. Was considered in bonding.

**GVH #15A**

Proposed, conditionally approved but never drilled. No bonding.

**GVH #16**

The drilling pad was prepared but the hole was never drilled. This GVH was fenced and re-seeded to augment existing vegetation in September of 2014. Before it is eligible for Phase I reclamation, the vertical culvert (water drain) needs to be removed. Once removed, the 10 year reclamation clock can start. Was considered in bonding.

**GVH #16A**

Proposed, conditionally approved but never drilled. No bonding.

**GVH #17**

The drilling pad was prepared but the hole was never drilled. This GVH was fenced and re-seeded to augment existing vegetation in September of 2014. Before it is eligible for Phase I reclamation, the vertical culvert (water drain) needs to be removed. Once removed, the 10 year reclamation clock can start. Was considered in bonding.

Permit Number	C/007/0019	Report Date	November 17 <sup>th</sup> 2015
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Mine Name	Tower Mine
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Company Name	UtahAmerican Energy, Inc.
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Impoundment Identification	Impoundment Name	B, C & E
	Impoundment Number	None
	UPDES Permit Number	UTG040029
	MSHA ID Number	NA

**IMPOUNDMENT INSPECTION**

Inspection Date	November 17 <sup>th</sup> 2015
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Inspected By	Karin Madsen
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Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	4 <sup>th</sup> Quarter, Annual
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1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.

Ponds B, C & E

No instability, structural weaknesses, or visible hazards were observed at time of inspection.

Required for an impoundment which functions as a SEDIMENTATION POND.	<p>2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and, estimated average elevation of existing sediment.</p> <p style="text-align: center;">Sediment Elevations (Per Approved MRP):</p> <table style="width:100%; border: none;"> <tr> <td style="width:33%;">Cell B1 (South Cell)</td> <td style="width:33%;">Cell B2</td> <td style="width:33%;">Cell B3</td> </tr> <tr> <td style="text-align: center;">Max Water Level 7077'</td> <td style="text-align: center;">60% 7081'</td> <td style="text-align: center;">Max Water and Sed. Level 7087'</td> </tr> <tr> <td style="width:33%;">Cell B4 (North Cell)</td> <td style="width:33%;">Pond C</td> <td style="width:33%;">Pond E</td> </tr> <tr> <td style="text-align: center;">Max Water and Sed Level 7091'</td> <td style="text-align: center;">60% 7046.9' 100% 7048.7'</td> <td style="text-align: center;">60% 6947.5' 100% 6949.3'</td> </tr> </table> <p>Cleaning of all B Cells must take place when sediment level reaches 7081' in Cell B2.</p> <p>See section 5 for current sediment levels.</p>	Cell B1 (South Cell)	Cell B2	Cell B3	Max Water Level 7077'	60% 7081'	Max Water and Sed. Level 7087'	Cell B4 (North Cell)	Pond C	Pond E	Max Water and Sed Level 7091'	60% 7046.9' 100% 7048.7'	60% 6947.5' 100% 6949.3'
Cell B1 (South Cell)	Cell B2	Cell B3											
Max Water Level 7077'	60% 7081'	Max Water and Sed. Level 7087'											
Cell B4 (North Cell)	Pond C	Pond E											
Max Water and Sed Level 7091'	60% 7046.9' 100% 7048.7'	60% 6947.5' 100% 6949.3'											

3. Principle and emergency spillway elevations.

Pond (B2 Cell 3)	Pond (C)	Pond (E)
Principle 7081.0' (Bottom of the culvert)	Principle 7053.1' Emergency 7056.05'	Principle 6957.6' Emergency 6958.6'

4. Field Information. Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions, or other related activities associated with the pond including but not limited to sediment cleanout, pond decanting, embankment erosion/repairs, monitoring information, vegetation on out-slopes of embankments, etc.

Sediment markers visible in ponds E And C.

Pond E contains approximately 2 foot of water. Pond C has about a foot of water in the lower corner.

No Thistle is growing in the ponds.

Bottom cell of B ponds had approximately 1 foot of water in the lower corner at time of inspection.

- No discharge has occurred from the pond UPDES, therefore no samples were taken.
- No observable problems exist at the inlets or outlets.
- No observable conditions were apparent that could affect the stability or function of the structure.
- Vegetation on out-slopes of pond embankments growing well.
- Decant visible and operational.

5. Field Evaluation. Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.

No changes in geometry have occurred. No change has occurred to the structure that would affect its stability or function.

There is no water within the ponds, except pond E which has 3 feet of ice, therefore no discharging is anticipated within the near future.

Current Sediment Levels (approximate):

Pond (B2 Cell 3)	Pond (C)	Pond (E)
7074.9	7046'	6942.5

Qualification Statement

I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

Signature: \_\_\_\_\_



Date: \_\_\_\_\_

11-17-15

**CERTIFIED REPORT**

IMPOUNDMENT EVALUATION (If NO, explain under Comments)	YES	NO
1. Is impoundment designed and constructed in accordance with the approved plan?	XXXXXX	
2. Is impoundment free of instability, structural weakness, or any other hazardous condition?	XXXXXX	
3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection?	XXXXXX	

**COMMENTS AND OTHER INFORMATION**

Pond as built drawings were reviewed in 2/2014 to confirm clean-out elevations and spillway elevations by RJM

**Certification Statement:**

I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability in accordance with the Utah R645 Coal Mining Rules.



[PE Seal Stamp]

By: David W. Hibbs, Director, Engineering  
 (Full Name and Title)

Signature: David W. Hibbs Date: 11/21/15

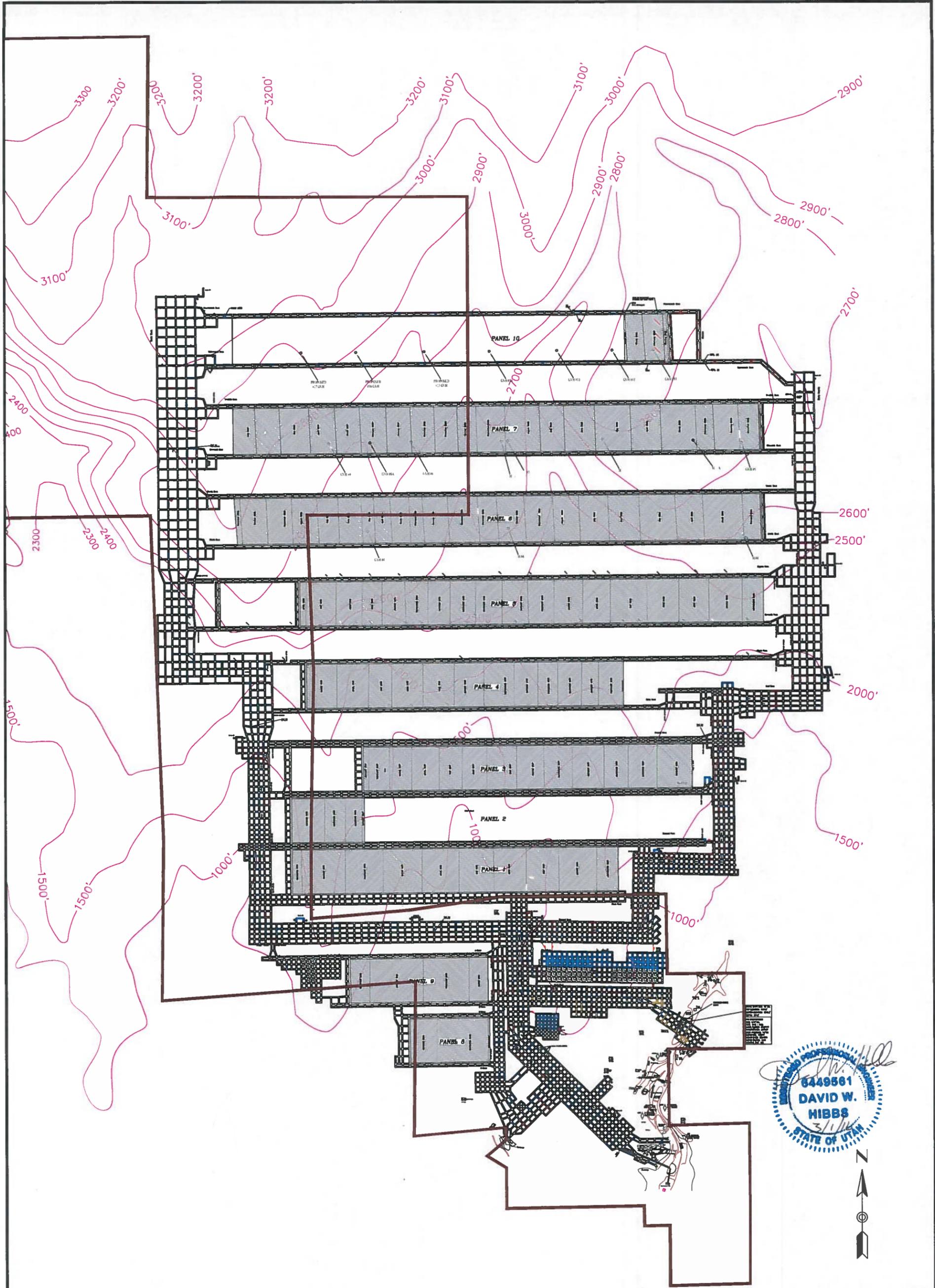
P.E. Number & State: 6449561 - Utah

**TOWER RESOURCES, INC.**  
2015 RTK GPS SUBSIDENCE SURVEY

10/15/2015

STATION	NORTHING (FEET)	EASTING (FEET)	2003 ELEVATION	2007 ELEVATION	2008 ELEVATION	2009 ELEVATION	2010 ELEVATION	2011 ELEVATION	2012 ELEVATION	2013 ELEVATION	2014 ELEVATION	2015 ELEVATION	NOTES
Rebar on ridge	505,141.92	2,217,261.07	8,241.62	8,241.62	8,241.62	8,241.62	8,241.62	8,241.62	8,241.62	8,241.62	8,241.62	8,241.62	CONTROL
Yellow Rebar	507,073.59	2,223,128.18	8,534.90	8,534.90	8,534.90	8,534.90	8,534.90	8,534.90	8,534.90	8,534.90	8,534.90	8,534.90	CONTROL
S-10	507,824.28	2,217,196.61	8,594.59	8,594.59	8,594.59	8,594.59	8,594.59	8,594.59	8,594.59	8,594.59	8,594.59	8,594.59	CONTROL
S16	508,650.48	2,210,725.70	8,809.53	8,809.64	8,809.75	8,809.71	8,809.72	8,809.70	8,809.68	8,809.69	8,809.68	8,809.70	---
S17	508,190.63	2,213,802.51	8,624.48	8,624.43	8,624.43	8,624.44	8,624.43	8,624.45	8,624.46	8,624.44	8,624.46	8,624.48	---
99-1	508,942.12	2,215,063.90	8,572.35	8,572.13	8,572.14	8,572.12	8,572.14	8,572.13	8,572.13	8,572.12	8,572.13	8,572.14	---
99-2	509,023.29	2,218,624.20	8,551.12	8,551.01	8,550.98	8,550.96	8,551.00	8,550.98	8,550.97	8,550.99	8,550.97	8,550.97	---
S20	510,331.29	2,217,642.56	8,574.26	8,573.87	8,573.78	8,573.77	8,573.78	8,573.82	8,573.79	8,573.80	8,573.79	8,573.81	---
S21	510,581.75	2,214,956.87	8,489.90	8,489.22	8,489.35	8,489.39	8,489.48	8,489.45	8,489.41	8,489.42	8,489.41	8,489.44	---
S32	509,739.02	2,218,933.12	8,548.93	8,548.80	8,548.81	8,548.79	8,548.77	8,548.80	8,548.81	8,548.80	8,548.81	8,548.82	---
G-17	513,692.46	2,210,938.01	---	8,488.24	8,488.23	8,488.22	8,488.24	8,488.25	8,488.23	8,488.23	8,488.23	8,488.26	---
G-12	510,581.75	2,216,526.83	---	8,311.00	8,311.02	8,311.00	8,311.01	8,311.02	8,311.03	8,311.01	8,311.03	8,311.03	---
E1/4 36	513,118.57	2,214,340.00	---	8,280.66	8,280.65	8,280.61	8,280.61	8,280.64	8,280.60	8,280.62	8,280.60	8,280.59	Section cor.
S1/4 36	510,454.70	2,211,696.79	---	8,606.46	8,606.43	8,606.44	8,606.43	8,606.43	8,606.43	8,606.44	8,606.43	8,606.40	Section cor.
<b>West Side Subsidence Line, Set in 2007</b>													
1	509,702.03	2,211,401.87	---	8,702.64	8,702.59	8,702.60	8,702.61	8,702.62	8,702.63	8,702.61	8,702.63	8,702.64	W. side line
2	509,802.00	2,211,401.17	---	8,693.70	8,693.69	8,693.69	8,693.69	8,693.67	8,693.68	8,693.70	8,693.68	8,693.68	W. side line
3	509,905.87	2,211,391.89	---	8,684.35	8,684.35	8,684.36	8,684.34	8,684.35	8,684.37	8,684.37	8,684.37	8,684.35	W. side line
4	510,003.89	2,211,387.55	---	8,673.73	8,673.77	8,673.77	8,673.75	8,673.75	8,673.78	8,673.75	8,673.78	8,673.77	W. side line
5	510,100.53	2,211,381.55	---	8,663.92	8,663.94	8,663.94	8,663.92	8,663.94	8,663.92	8,663.91	8,663.92	8,663.90	W. side line
6	510,205.72	2,211,424.42	---	8,646.43	8,646.50	8,646.49	8,646.51	8,646.53	8,646.54	8,646.52	8,646.54	8,646.56	W. side line
7	510,305.04	2,211,417.01	---	8,635.74	8,635.70	8,635.68	8,635.70	8,635.69	8,635.70	8,635.72	8,635.70	8,635.73	W. side line
8	510,401.40	2,211,415.19	---	8,625.82	8,625.81	8,625.80	8,625.81	8,625.80	8,625.83	8,625.81	8,625.83	8,625.77	W. side line
9	510,505.66	2,211,402.20	---	8,614.38	8,614.39	8,614.39	8,614.38	8,614.38	8,614.39	8,614.37	8,614.39	8,614.39	W. side line
10	510,608.91	2,211,401.63	---	8,603.45	8,603.45	8,603.46	8,603.45	8,603.47	8,603.46	8,603.47	8,603.46	8,603.48	W. side line
11	510,709.16	2,211,393.00	---	8,596.31	8,596.29	8,596.29	8,596.30	8,596.28	8,596.30	8,596.30	8,596.30	8,596.31	W. side line
12	510,798.94	2,211,380.99	---	8,588.76	8,588.74	8,588.72	8,588.72	8,588.75	8,588.73	8,588.74	8,588.73	8,588.75	W. side line
13	510,898.92	2,211,375.38	---	8,576.09	8,576.10	8,576.09	8,576.09	8,576.11	8,576.09	8,576.12	8,576.09	8,576.07	W. side line
14	511,010.59	2,211,370.03	---	8,561.49	8,561.50	8,561.47	8,561.49	8,561.47	8,561.48	8,561.50	8,561.48	8,561.50	W. side line
15	511,112.19	2,211,366.93	---	8,548.90	8,548.83	8,548.81	8,548.81	8,548.82	8,548.80	8,548.83	8,548.80	8,548.80	W. side line
16	511,228.34	2,211,359.45	---	8,543.69	8,543.65	8,543.61	8,543.63	8,543.63	8,543.63	8,543.62	8,543.63	8,543.66	W. side line
17	511,338.04	2,211,366.01	---	8,542.64	8,542.59	8,542.57	8,542.60	8,542.59	8,542.58	8,542.57	8,542.58	8,542.59	W. side line
18	511,437.15	2,211,398.56	---	8,535.12	8,535.08	8,535.06	8,535.10	8,535.08	8,535.07	8,535.09	8,535.08	8,535.08	W. side line
19	511,553.98	2,211,419.93	---	8,526.12	8,526.05	8,526.02	8,526.04	8,526.05	8,526.03	8,526.06	8,526.03	8,526.06	W. side line
20	511,693.22	2,211,455.79	---	8,517.15	8,517.08	8,517.07	8,517.06	8,517.11	8,517.12	8,517.10	8,517.12	8,517.07	W. side line
21	511,807.12	2,211,469.85	---	8,512.56	8,512.50	8,512.49	8,512.47	8,512.52	8,512.50	8,512.50	8,512.50	8,512.53	W. side line
22	511,915.39	2,211,476.19	---	8,510.95	8,510.89	8,510.90	8,510.87	8,510.90	8,510.91	8,510.89	8,510.91	8,510.94	W. side line
23	512,092.42	2,211,408.58	---	8,505.00	8,504.98	8,504.98	8,504.93	8,504.95	8,504.98	8,504.95	8,504.98	8,504.96	W. side line
24	512,192.21	2,211,384.74	---	8,495.80	8,495.72	8,495.71	8,495.71	8,495.73	8,495.71	8,495.72	8,495.71	8,495.73	W. side line
25	512,292.93	2,211,375.13	---	8,483.93	8,483.94	8,483.94	8,483.94	8,483.92	8,483.92	8,483.95	8,483.92	8,483.92	W. side line
26	512,408.97	2,211,358.60	---	8,471.08	8,471.04	8,471.05	8,471.04	8,471.06	8,471.07	8,471.05	8,471.07	8,471.07	W. side line
27	512,515.37	2,211,308.35	---	8,462.95	8,462.90	8,462.89	8,462.91	8,462.92	8,462.90	8,462.91	8,462.90	8,462.93	W. side line
28	512,650.10	2,211,333.27	---	8,449.75	8,449.72	8,449.72	8,449.73	8,449.73	8,449.74	8,449.72	8,449.74	8,449.71	W. side line
29	512,873.07	2,211,295.54	---	8,430.09	8,430.05	8,430.03	8,430.06	8,430.04	8,430.04	8,430.06	8,430.04	8,430.05	W. side line
30	512,993.25	2,211,287.69	---	8,428.71	8,428.68	8,428.69	8,428.74	8,428.76	8,428.75	8,428.71	8,428.75	8,428.74	W. side line
31	513,091.16	2,211,285.96	---	8,427.18	8,427.16	8,427.15	8,427.18	8,427.20	8,427.20	8,427.19	8,427.20	8,427.21	W. side line
32	513,217.13	2,211,297.36	---	8,423.25	8,423.21	8,423.21	8,423.24	8,423.23	8,423.21	8,423.22	8,423.21	8,423.22	W. side line
33	513,353.03	2,211,313.87	---	8,425.43	8,425.38	8,425.38	8,425.40	8,425.39	8,425.40	8,425.41	8,425.40	8,425.40	W. side line
34	513,491.93	2,211,317.92	---	8,407.84	8,407.78	8,407.79	8,407.80	8,407.79	8,407.79	8,407.78	8,407.79	8,407.81	W. side line
35	513,607.49	2,211,335.06	---	8,406.22	8,406.17	8,406.17	8,406.18	8,406.18	8,406.16	8,406.16	8,406.16	8,406.22	W. side line
36	513,719.38	2,211,366.06	---	8,403.71	8,403.68	8,403.66	8,403.69	8,403.66	8,403.68	8,403.69	8,403.68	8,403.69	W. side line
37	513,810.83	2,211,402.93	---	8,400.29	8,400.24	8,400.26	8,400.26	8,400.25	8,400.27	8,400.30	8,400.27	8,400.28	W. side line
38	513,932.97	2,211,450.36	---	8,396.17	8,396.14	8,396.14	8,396.15	8,396.13	8,396.15	8,396.14	8,396.15	8,396.13	W. side line
39	514,038.94	2,211,462.97	---	8,394.29	8,394.25	8,394.24	8,394.26	8,394.25	8,394.25	8,394.26	8,394.25	8,394.24	W. side line





Mine did not produce coal in 2015

<b>MINE MAP</b>	
<b>ABERDEEN MINE TOWER DIVISION</b>	
6750 AIRPORT ROAD PRICE, UTAH 84501	
MSHA MINE ID #42-02028	
DRAWN BY	PJ
APPROVED BY	DH
SHEET	1 of 1
SCALE	1" = 1500'
DATE	1 MARCH 2016

