

### American Shale Oil, LLC

September 27, 2012

Mr. Kent Walter, Manager White River Field Office Bureau of Land Management 220 East Market Street Meeker CO 81641

Mr. Travis Marshall, Environmental Protection Specialist CDRMS 101 South 3<sup>rd</sup> Street, Suite 301 Grand Junction CO 81501

RECEIVED

SEP 2 8 2012

GRAND JUNCTION FIELD OFFICE
DIVISION OF
RECLAMATION MINING & SAFETY

RE:

Amendment to Plan of Development BLM Oil Shale Lease COC69169 Modification to Existing Notice of Intent DRMS NOI No. P-2008-046

Dear Kent and Travis:

AMSO is submitting this amendment to our Plan of Development (POD) and modification to our 'Notice of Intent to Conduct Prospecting' (NOI) for your approvals.

In order to communicate efficiently the substantial amount of data we will generate during our RD&D activities, AMSO would like to install a 40 feet tall communications tower. This tower would be located inside our fenced Test Pad adjacent to our Engineering Trailer. Please see the Figure and design drawing enclosed with this application.

The communications tower will have a concrete base as shown on the enclosed engineering drawing. For reclamation, the tower will be removed and the concrete will be dug up, broken into pieces less than two feet in any dimension, and the concrete pieces incorporated into the overall Test Pad recontouring.

No other changes to our POD or NOI are requested at this time.

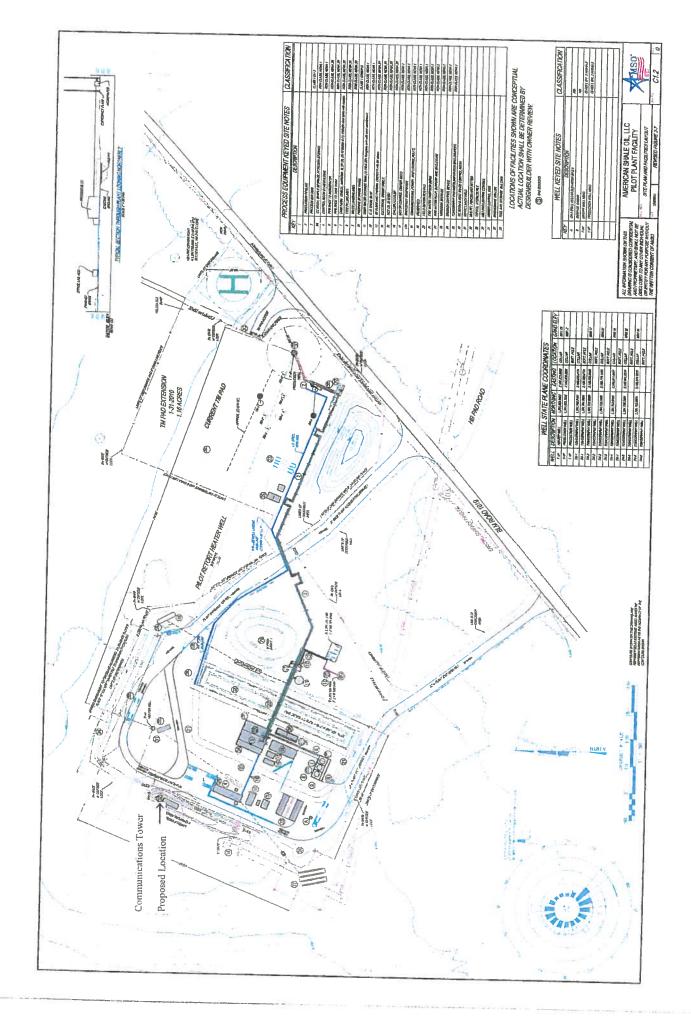
Your approvals would be appreciated.

Please contact me if you have any questions or need more information.

Sincerely,

Roger L. Day VP of Operations

A.



## STATE OF COLORADO

DIVISION OF RECLAMATION, MINING AND SAFETY

Department of Natural Resources

1313 Sherman St., Room 215 Denver, Colorado 80203 Phone: (303) 866-3567 FAX: (303) 832-8106



#### FORM 1

All information for DRMS use and confidential filing
NOTICE OF INTENT TO CONDUCT PROSPECTING OPERATIONS
FOR HARD ROCK/METAL MINES

		(Provide for Modifications to an existing NOI)	
		NERAL OPERATION INFORMATION  n the space provided, ALL information described by	elow.
I. GENERAL IN	FORMATION		
1. DATE NOI RECE	IVED BY THE DIVIS	NON:	(office use only)
2. PROJECT NAME	41400 0000 01		(Office disc offiy)
3. PROSPECTOR: Name: No Char	nge	PERSON MLRB SHOULD O	CONTACT:
Title:	<u> </u>		
Company Name:			
Street:			
P.O. Box:			
City:			
State:			
Zip Code:			
Telephone Number:			
Fax Number:			
4. <u>APPLICATION F</u> processed by the Di		nodifications require an \$86 fee which must accompan	y this notice or it cannot l
S. LOCATION INFO	RMATION:		
County:			
PRINCIPAL MERI		6 <sup>th</sup> (Colorado) 10 <sup>th</sup> (New Moxico) (U	te)
SECTION (write nu	mber): S_		

#### 2 (FORM 1 - All information for DRMS use and confidential filing) TOWNSHIP (write number and check direction) T North RANGE (write number and check direction) R East West QUARTER SECTION (check one): NW SE SW QUARTER/QUARTER SECTION (check one): NE SE GENERAL DESCRIPTION: (the number of miles and direction to the nearest town and the approximate elevation): No Change NOTE: Supply longitude and latitude or UTM coordinates if lands have not been surveyed or as supplemental information to this NOI. GPS measurements will be acceptable for this purpose: 6. LAND OWNERSHIP Private Public Domain (BLM) National Forest (USFS) State State Sovereign Lands Other (please describe): If prospecting is located on BLM or USFS land the remaining section must be completed, otherwise go to Section II, Maps & Drawings 7. PROSPECTING ON BUREAU OF LAND MANAGEMENT (BLM) LAND AND U.S. FOREST SERVICE (USFS) LAND The Division and the BLM/USFS have entered into cooperative agreements that eliminate the need for a prospector to post a financial warranty with each agency and allow them to coordinate the review of the NOI in order to minimize administrative processing time and effort. A. **CLAIMANT**: Name: Address:\_ Telephone: \_\_\_ Fax Number: \_\_\_ B. SITE/CLAIM INFORMATION: List names, serial numbers, and provide legal description to nearest quarter-quarter section of all sites or claims (attach additional page, if necessary).

**LEGAL DESCRIPTION** 

NAME

SERIAL NUMBER

	C.	<b>LOCATION MAP:</b> Attach a USGS 7.5 minute quad, or similar map of adequate scale, which locates the prospecting site(s).
	D.	Are prospect sites (e.g., drill holes, trench locations, etc) staked on the ground? Yes No
	E.	Specify the Land Management Agency, Address and Telephone Number:  No Change
	F.	The prospector is required to document that the NOI has been sent to the BLM or the USFS. Processing of the NOI will not begin until the prospector has submitted evidence acceptable to the Division that the NOI was sent to the BLM or USFS. Check one:
		Evidence of notification is attached to this NOI for BLM Land Evidence of notification is attached to this NOI for USFS Land. Other proof of notice is attached to this NOI
п.	M	APS & DRAWINGS
		curate topographic base map showing the location of the proposed project must be submitted with this notice. The spector may submit a U.S.G.S. 7.5 minute quadrangle, or similar map of adequate scale that:
1.		ntifies the proposed prospecting site(s) or activity areas involving surface disturbance. Activity areas include all drill es, mud pits, excavations, trenches, adits, shafts, tunnels, rock dumps, stockpiles, impoundments and prospecting roads,
2.	are tun dat	udes sufficient detail to identify and locate known prospecting features and facilities that may be affected and those that not anticipated to be affected. This includes the location of all drill holes, mud pits, excavations, trenches, adits, shafts, nels, rock dumps, stockpiles, impoundments and prospecting roads. Color photographs, adequately labeled (including e, orientation and location), of the prospecting site may be used to fulfill this requirement if included with the NOI mittal.
m	.PR	OJECT DESCRIPTION
1.	Mi	neral(s) and/or Resource(s) being Investigated: No Change
2.	Est	imated dates of commencement and completion:
	Con	nmencement:,
	Co	npletion:,
3.	An	ount of material to be extracted, moved or proposed to be moved:
4.	Ide	ntify the type or method of prospecting proposed and quantity (place an "X")
	+	Cuts Pits Trenches
	4	haftsAditsDeclines
		kir DrillingFluid DrillingDrilling & Blasting

 $(FORM\ 1-All\ information\ for\ DRMS\ use\ and\ confidential\ filing)$ 

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### 4 (FORM 1 - All information for DRMS use and confidential filing)

	ange
	d Disturbance (approximate) Describe the proposed drilling to be conducted, including anticipated number of
ameter	, depth, location, etc Submit additional pages if necessary:
A.	Drill Pads: Quantity Average Width (ft) Average Length (ft)
B.	Drill Holes: Quantity Depth (ft) Diameter (in)
C.	Mud Pits: Quantity Average Width (ft) Average Length (ft)
	Average Depth (ft)
	Described proposed underground work, including reopening of old workings, advancement of adits or shaft
	trenches, pits, cuts, rock dumps, or other types of disturbance, describe type, quantity and general dimension
	No Change
	The second secon
D.	Other Disturbances (please describe):
	Other Disturbances (please describe):  new disturbances, disturbed acreage remains the same.
<u>No</u>	new disturbances, disturbed acreage remains the same.
<u>No</u>	new disturbances, disturbed acreage remains the same.  Indicate Chemicals and Fuels used or stored on site. List type, quantity and method to store.
<u>No</u>	new disturbances, disturbed acreage remains the same.  Indicate Chemicals and Fuels used or stored on site. List type, quantity and method to store.
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E. No	Indicate Chemicals and Fuels used or stored on site. List type, quantity and method to store.  Change
No E. No F.	new disturbances, disturbed acreage remains the same.  Indicate Chemicals and Fuels used or stored on site. List type, quantity and method to store.
E. No	Indicate Chemicals and Fuels used or stored on site. List type, quantity and method to store.  Change

5 (FORM 1 - All information for DRMS use and confidential filing) G. Total project area to be disturbed \_\_\_\_\_ (acres) H. Describe the equipment to be used for the prospecting operations: No Change Describe and locate any structures to be constructed (i.e. stockpiles, ponds, impoundments); New 40 feet tall communications tower to be located adjacent to the Engineering Trailer inside chain link fence on west side of Test Pad. Please see enclosed Figure and design drawing. J. Describe anticipated relationship to surface water and groundwater (proximity to streams, penetration of ground water aquifers): No Change **OPERATION AND RECLAMATION MEASURES:** 1. The Board suggests that a photographic record of the pre-prospecting and post-prospecting conditions be kept by the prospector. These photos should be taken from the same location and by the same method to clearly show the pre-prospecting condition of the land and the reclamation efforts. Upon completion of reclamation and request for bond or surety release, the Board may consider the photos as evidence of adequate reclamation, and thus, be able to act more quickly on the request for release. 2. Provide a description of the native vegetation of the area to be disturbed, including tree, shrub, and grass communities of the area. Color photographs, sufficient to adequately represent the ecology of the site and adequately labeled (including date, orientation and location), may be used in lieu of a written description. Based on the quality of the photographs, the Division may require additional detail. No Change

### 6 (FORM 1 - All information for DRMS use and confidential filing)

Describe how drill holes will be plugged (refer to Rule 5.4 of the Rules for required abandonment procedures):
No Change
Describe how portals, adits, shafts, ponds, excavations, or other disturbances will be reclaimed (refer to Rule 3 and Rule pecific reclamation performance standards). You may wish to contact the Division for closure specifications.
No change to previous approvals. The communications tower will have a concrete base as shown on the enclosed design drawing. The tower will be removed and the concrete
base will be dug up, broken up into pieces less than two feet in any dimension, and the
concrete pieces incorporated into the overall Test Pad recontouring. The incremental cost
of reclamation is estimated to be \$1,000.
Describe how roads will be reclaimed or returned to their pre-prospecting (or better) condition:
No Change

- 7
- 7. List the seed mixture to be used in the re-establishment of vegetation. See the attached seed mixture calculation to obtain PLS/acre. For assistance with formulating seed mixtures and rates, contact the local NRCS if on private land, BLM/USFS if on public land or State Land Board if on state land.
  - A. Provide plant name and seeding rate

Plant Name	Seeding Rate (PLS/acre)
No Change	

No Change			
NO Onange		 	
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		 -	_

#### V. TERMS AND CONDITIONS FOR PROSPECTING OPERATIONS:

- 1. Reclamation measures shall be fulfilled in a timely manner and completed within five (5) years of completion of prospecting activities.
- 2. The prospecting operations described in this Notice will be conducted in such a manner as to minimize surface disturbances. In addition to the measures required in Rule 5, precautions to be taken include:
  - A. Confinement of operations to areas near existing roads or trails, where practicable. Existing roads which are to remain as permanent roads after prospecting activities are completed shall be left in a condition equal to or better than the preprospecting condition;
  - B. Drilling shall be conducted in such a way as to prevent cuttings and fluids from directly entering any dry or flowing stream channel. Drill cuttings must be spread to a depth no greater than one-half (1/2) inch or buried in an approved disposal pit;

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- C. Proper and timely abandonment of drill holes upon completion of drilling;
- D. Reclamation of affected lands upon completion of operations or phases of an operation;,
- E. Backfilling and revegetating any pits to blend in with the surrounding land surface;
- F. Safeguarding mine entries, trenches and excavations from unauthorized entry at all times;
- G. Disposal of any trash, scrap metal, wood, machinery, and buildings;
- H. Control of noxious weeds within the area affected by the prospector
- The prospecting operations shall be conducted in such a manner as to comply with all applicable local, state and federal laws and regulations including applicable state and federal air and water quality laws and regulations.
- 4. The prospecting operations shall be conducted so as to minimize adverse effects upon wildlife to include covering of open drill holes until properly plugged.
- During the prospecting operations, the operator will perform the necessary stabilization and reclamation work to ensure those areas affected by prospecting activities are erosionally and geotechnically stable.
- 6. All prospecting operations shall be in compliance with the Colorado Mined Land Reclamation Act, as amended (34-32-101 et seq. C.R.S.), and all rules and regulations currently in effect or promulgated pursuant thereto. See 2 CCR 407-1, Mined Land Reclamation Board Hardrock /Metal Mining Rules.

#### VI. ADDITIONAL TERMS AND CONDITIONS FOR PROSPECTING ON BLM/USFS LANDS

- 1. The prospector will supply a copy of this NOI to the appropriate BLM and/or USFS office.
- The prospector authorizes the MLRB to discuss the information in this Notice of Intent with the BLM and/or USFS.
- 3. If on BLM land, the prospector will complete reclamation to the standards described in 43 CFR 3809.1-3 (d) and implement reasonable measures to prevent unnecessary or undue degradation of lands during operations.

#### VII. FINANCIAL WARRANTY

A financial warranty must be provided for the cost of reclamation of the disturbance described in this Notice. The prospector can either file a "One Site Prospecting Financial Warranty" or a "Statewide Financial Warranty." The financial warranty must be submitted and approved by the Division prior to entry upon lands for the purpose of prospecting.

An One-Site Prospecting Financial Warranty is usually filed by individuals or companies where prospecting activities are limited to a single area. It must be filed in the amount of \$2,000 per acre for land to be disturbed, or such other amount as determined by the Division, based on the projected costs of reclamation. A Statewide Financial Warranty is usually filed by companies with multiple prospecting sites. It must be filed in an amount equal to the estimated cost of reclamation per acre of affected land for all anticipated sites statewide. (You may increase the Statewide bond at any time in order to cover additional or expanded prospecting activities.)

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#### VIII. SIGNATURE REQUIREMENT

Signature of NOI holder or person authorized to sign:

Name (typed or print) Roger L. Day

Title/Position: VP Operations AMSO

Please place	you initials on the line provided:
Day	I hereby verify that the foregoing information is true and accurate and commit to the reclamation of the aforementioned prospecting site as required by the Colorado Mined Reclamation Act and the rules as specified in the Hard Rock/Metal Mining Rules and Regulations and this NOI form.
Spy	I have enclosed the required permit fee.
Lay	I authorize the Division to contact and copy the BLM and/or USFS on any correspondence related to the prospecting operation, if the prospecting operation is located on federal public land.
Day	I have also enclosed the appropriate reclamation surety amount or will post an amount as determined by the office based on the projected costs of reclamation.
Day	I understand that I am not authorized to create any surface disturbance until the surety amount is posted and approved in writing from the Division of Reclamation, Mining and Safety.
lay	I accept and agree to comply with the foregoing terms and conditions and with all of the provisions of Rules 3 and 5 and C.R.S. 34-32-101.
Lay	I herby certify that concurrent with submittal of this NOI to the Division, I have sent notice to the Boards of County Commissioners in the Counties where the proposed activities will occur. This notice also indicated that non-confidential information regarding the proposed activities will be available for review at the Division's website.
Reclamation	as been approved by the Mined Land Reclamation Board pursuant to section 34-32-113, C.R.S., of the Mined Land Act. Any alteration or modification of this form shall result in voiding any NOI issued on the altered or modified bject the operator to cease and desist orders and civil penalties for operating without a NOI pursuant to section 34 S.
I. the unders given in this	igned, being the NOI holder or the person authorized to sign on behalf of the NOI holder, declare that the information NOI form is true and correct.
	SIGNATURES MUST BE IN BLUE INK
Signed and o	lated this 37 day of September 2012

### STATE OF COLORADO

#### **DIVISION OF RECLAMATION, MINING AND SAFETY**

Department of Natural Resources

1313 Sherman St., Room 215 Denver, Colorado 80203 Phone: (303) 866-3567 FAX: (303) 832-8106



# FORM 2 (Public File) NOTICE OF INTENT TO CONDUCT PROSPECTING OPERATIONS FOR HARD ROCK/METAL MINES

	Modifications to an existing NOI)  RATION INFORMATION
	provided, ALL information described below.
I. GENERAL INFORMATION	
1. DATE NOI RECEIVED BY THE DIVISION:	(office use only)
2. PROJECT NAME: AMSO RD&D Oil Shale Proje	ect
8. PROSPECTOR:	PERSON MLRB SHOULD CONTACT:
No Change	Name: No Change
Title:	Title:
Company Name:	Company Name:
Street:	Street:
P.O. Box:	P.O. Box:
City:	City:
State:	State:
Zip Code:	Zip Code:
Telephone Number:	Telephone Number:
Fax Number:	Fax Number:
<ol> <li>APPLICATION FEE: \$86. (NOIs and modification processed by the Division).</li> </ol>	s require an \$86 fee which must accompany this notice or it cannot be
10. LOCATION INFORMATION:  County:	·
	orado) 10 <sup>th</sup> (New Mexico) (Ute)
SECTION (write number): S	(Ott)
DECTION (WINE HUMBER).	

2 (FORM 2 - Public filing) West RANGE (write number and check direction) East NE NW SE SW QUARTER SECTION (check one): NE NW SE QUARTER/QUARTER SECTION (check one): GENERAL DESCRIPTION: (the number of miles and direction to the nearest town and the approximate elevation): No Change NOTE: Supply longitude and latitude or UTM coordinates if lands have not been surveyed or as supplemental information to this NOI. GPS measurements will be acceptable for this purpose: 11. LAND OWNERSHIP National Forest (USFS) Public Domain (BLM) Private State Sovereign Lands Other (please describe): State If prospecting is located on BLM or USFS land the remaining section must be completed, otherwise go to section II Maps & Drawings 12. PROSPECTING ON BUREAU OF LAND MANAGEMENT (BLM) LAND AND U.S. FOREST SERVICE (USFS) LAND The Division and the BLM/USFS have entered into cooperative agreements that eliminate the need for a prospector to post a financial warranty with each agency and allow them to coordinate the review of the NOI in order to minimize administrative processing time and effort. G. **CLAIMANT**: Address: Telephone: Fax Number: H. SITE/CLAIM INFORMATION: List names, serial numbers and provide legal description to nearest quarter-quarter section of all sites or claims (attach additional page, if necessary). SERIAL NUMBER LEGAL DESCRIPTION NAME

	I.	<b>LOCATION MAP:</b> Attach a USGS 7.5 minute quad, or similar map of adequate scale, which locates the prospecting site(s).
	J.	Are prospect sites (e.g., drill holes, trench locations, etc) staked on the ground? Yes No
	K.	Specify the Land Management Agency, Address and Telephone Number:  No Change
	L.	The prospector is required to document that the NOI has been sent to the BLM or the USFS. Processing of the NOI will not begin until the prospector has submitted evidence acceptable to the Division that the NOI was sent to the BLM or USFS. Check one:  Evidence of notification is attached to this NOI for BLM Land Evidence of notification is attached to this NOI for USFS Land.  Other proof of notice is attached to this NOI
		Other proof of notice is attached to this 1401
П.		MAPS & DRAWINGS
Accomay	y sul ide	te topographic base map showing the location of the proposed project must be submitted with this notice. The prospector bmit a U.S.G.S. 7.5 minute quadrangle, or similar map of adequate scale that:  Intifies the proposed prospecting site(s) or activity areas involving surface disturbance. Activity areas include all drill holes
4.	inc are tun dat	d pits, excavations, trenches, adits, shafts, tunnels, rock dumps, stockpiles, impoundments and prospecting roads, and cludes sufficient detail to identify and locate known prospecting features and facilities that may be affected and those that not anticipated to be affected. This includes the location of all drill holes, mud pits, excavations, trenches, adits, shafts, unels, rock dumps, stockpiles, impoundments and prospecting roads. Color photographs, adequately labeled (including te, orientation and location), of the prospecting site may be used to fulfill this requirement if included with the NOI omittal.
Ш		PROJECT DESCRIPTION
7.	Mi	ineral(s) and/or Resource(s) being Investigated: No Change
8.		timated dates of commencement and completion:
	Со	mmencement:
	Co	mpletion:
9.	An	nount of material to be extracted, moved or proposed to be moved:
10.	Ide	entify the type or method of prospecting proposed and quantity (place an "X")
	-	Cuts — Pits — Trenches Shafts — Tunnels — Adits Declines Air Drilling — Fluid Drilling — Drilling & Blasting

### 4 (FORM 2 - Public filing)

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ropose	d Disturbance (approximate)	) Describe the proposed	drilling to be conducted, includ	ling anticipated number of
ameter	, depth, location, etc Subr	nit additional pages if ne	ecessary:	
A.	Drill Pads: Quantity	Average Width	(ft) Average Length	(ft)
B.	Drill Holes: Quantity	Depth	(ft) Diameter	(in)
C.	Mud Pits: Quantity	Average Width	(ft) Average Length	(ft)
	Average Depth	(ft)		
	Described proposed under	ground work, including	reopening of old workings, adv	ancement of adits or shaft
	trenches, pits, cuts, rock du	imps, or other types of d	listurbance, describe type, quan	tity and general dimension
	No Change			
	***************************************			
		UI.		
		<u> </u>		
F.	Other Disturbances (please	e describe):		
	_		emains the same.	
	_		emains the same.	
	_		emains the same.	
	_		emains the same.	
	_		emains the same.	
	new disturbances, dis	sturbed acreage re		
No G.	new disturbances, dis	sturbed acreage re	e. List type, quantity and metho	
No G.	new disturbances, dis	sturbed acreage re		
No G.	new disturbances, dis	sturbed acreage re	e. List type, quantity and metho	
No G.	new disturbances, dis	sturbed acreage re	e. List type, quantity and metho	
No G.	new disturbances, dis	sturbed acreage re	e. List type, quantity and metho	
No G.	new disturbances, dis	sturbed acreage re	e. List type, quantity and metho	
No G. No F.	new disturbances, dis  Indicate Chemicals and Fu Change  New Road(s):	sturbed acreage re	e. List type, quantity and metho	od to store.
G. No	Indicate Chemicals and Fu Change  New Road(s): ificantly Upgraded Road(s)	Length(	e. List type, quantity and metho	od to store.

### (FORM 2 - Public filing)

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	K. Describe the equipment to be used for the prospecting operations:	
	No Change	
	Control of the contro	
		2000 118
		-
	L. Describe and locate any structures to be constructed (i.e. stockpiles, ponds, impoundments): New 40 feet tall communications tower to be located adjacent to the Engineering Trailer inside changes on west side of Test Pad.	nain link
	Please see enclosed Figure and design drawing.	
	M. Describe anticipated relationship to surface water and groundwater (proximity to streams, penetration of g water aquifers): No Change	round
	No Change	
	OPERATION AND RECLAMATION MEASURES:	
P c	OPERATION AND RECLAMATION MEASURES:  the Board suggests that a photographic record of the pre-prospecting and post-prospecting conditions be be prospector. These photos should be taken from the same location and by the same method to clearly show the pre-production of the land and the reclamation efforts. Upon completion of reclamation and request for bond or surety oard may consider the photos as evidence of adequate reclamation, and thus, be able to act more quickly on the clease.	prospect release,
P C E T P a	he Board suggests that a photographic record of the pre-prospecting and post-prospecting conditions be known to spector. These photos should be taken from the same location and by the same method to clearly show the pre-prodition of the land and the reclamation efforts. Upon completion of reclamation and request for bond or surety oard may consider the photos as evidence of adequate reclamation, and thus, be able to act more quickly on the	prospect release, request nities of uding d
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### (FORM 2 - Public filing)

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	Describe how drill holes will be plugged (refer to Rule 5.4 of the Rules for required abandonment procedures):
	No Change
	Describe how we take white who the monday are expected as a sthery disturbance will be realisted (refer to Pule 2 and Pule
	specific reclamation performance standards). You may wish to contact the Division for closure specifications.
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	No change to previous approvals. The communications tower will have a concrete base as shown on the enclosed design drawing. The tower will be removed and the concrete base will be dug up, broken up into pieces less than two feet in any dimension, and the concrete pieces incorporated into the overall Test Pad recontouring. The incremental cost of reclamation is estimated to be \$1,000.  Describe how roads will be reclaimed or returned to their pre-prospecting (or better) condition:
	No change to previous approvals. The communications tower will have a concrete base as shown on the enclosed design drawing. The tower will be removed and the concrete base will be dug up, broken up into pieces less than two feet in any dimension, and the concrete pieces incorporated into the overall Test Pad recontouring. The incremental cost of reclamation is estimated to be \$1,000.  Describe how roads will be reclaimed or returned to their pre-prospecting (or better) condition:

- 12. List the seed mixture to be used in the re-establishment of vegetation. See the attached seed mixture calculation to obtain PLS/acre. For assistance with formulating seed mixtures and rates, contact the local NRCS if on private land, BLM/USFS if on public land or State Land Board if on state land.
  - A. Provide plant name and seeding rate

Plant Name	Seeding Rate (PLS/acre)
No Change	

lo Change			 
	-	***************************************	

#### V. TERMS AND CONDITIONS FOR PROSPECTING OPERATIONS:

- Reclamation measures shall be fulfilled in a timely manner and completed within five (5) years of completion of prospecting activities.
- 4. The prospecting operations described in this Notice will be conducted in such a manner as to minimize surface disturbances. In addition to the measures required in Rule 5, precautions to be taken include:
  - A. Confinement of operations to areas near existing roads or trails, where practicable. Existing roads which are to remain as permanent roads after prospecting activities are completed shall be left in a condition equal to or better than the pre-prospecting condition;
  - B. Drilling shall be conducted in such a way as to prevent cuttings and fluids from directly entering any dry or flowing stream channel. Drill cuttings must be spread to a depth no greater than one-half (1/2) inch or buried in an approved disposal pit;

- C. Proper and timely abandonment of drill holes upon completion of drilling;
- D. Reclamation of affected lands upon completion of operations or phases of an operation;,
- E. Backfilling and revegetating any pits to blend in with the surrounding land surface;
- F. Safeguarding mine entries, trenches and excavations from unauthorized entry at all times;
- G. Disposal of any trash, scrap metal, wood, machinery, and buildings;
- H. Control of noxious weeds within the area affected by the prospector
- 3. The prospecting operations shall be conducted in such a manner as to comply with all applicable local, state and federal laws and regulations including applicable state and federal air and water quality laws and regulations.
- 4. The prospecting operations shall be conducted so as to minimize adverse effects upon wildlife to include covering of open drill holes until properly plugged.
- During the prospecting operations, the operator will perform the necessary stabilization and reclamation work to ensure those areas affected by prospecting activities are erosionally and geotechnically stable.
- 6. All prospecting operations shall be in compliance with the Colorado Mined Land Reclamation Act, as amended (34-32-101 et seq. C.R.S.), and all rules and regulations currently in effect or promulgated pursuant thereto. See 2 CCR 407-1, Mined Land Reclamation Board Hardrock /Metal Mining Rules.

#### VI. ADDITIONAL TERMS AND CONDITIONS FOR PROSPECTING ON BLM/USFS LANDS

- 4. The prospector will supply a copy of this NOI to the appropriate BLM and/or USFS office.
- 5. The prospector authorizes the MLRB to discuss the information in this Notice of Intent with the BLM and/or USFS.
- If on BLM land, the prospector will complete reclamation to the standards described in 43 CFR 3809.1-3 (d) and implement reasonable measures to prevent unnecessary or undue degradation of lands during operations.

#### VII. FINANCIAL WARRANTY

A financial warranty must be provided for the cost of reclamation of the disturbance described in this Notice. The prospector can either file a "One Site Prospecting Financial Warranty" or a "Statewide Financial Warranty." The financial warranty must be submitted and approved by the Division prior to entry upon lands for the purpose of prospecting.

An One-Site Prospecting Financial Warranty is usually filed by individuals or companies where prospecting activities are limited to a single area. It must be filed in the amount of \$2,000 per acre for land to be disturbed, or such other amount as determined by the Division, based on the projected costs of reclamation. A Statewide Financial Warranty is usually filed by companies with multiple prospecting sites. It must be filed in an amount equal to the estimated cost of reclamation per acre of affected land for all anticipated sites statewide. (You may increase the Statewide bond at any time in order to cover additional or expanded prospecting activities.)

#### VIII. SIGNATURE REQUIREMENT

Signature of NOI holder or person authorized to sign:

Name (typed or print) Roger L. Day
Title/Position: VP Operations AMSO

Please place	you initials on the line provided:
Day	I hereby verify that the foregoing information is true and accurate and commit to the reclamation of the aforementioned prospecting site as required by the Colorado Mined Reclamation Act and the rules as specified in the Hard Rock/Metal Mining Rules and Regulations and this NOI form.
Lay	I have enclosed the required permit fee.
Lay	I authorize the Division to contact and copy the BLM and/or USFS on any correspondence related to the prospecting operation, if the prospecting operation is located on federal public land.
Day	I have also enclosed the appropriate reclamation surety amount or will post an amount as determined by the office, based on the projected costs of reclamation.
Day	I understand that I am not authorized to create any surface disturbance until the surety amount is posted and approved in writing from the Division of Reclamation, Mining and Safety.
Day	I accept and agree to comply with the foregoing terms and conditions and with all of the provisions of Rules 3 and $5$ , and $C.R.S.$ 34-32-101.
Day	I herby certify that concurrent with submittal of this NOI to the Division, I have sent notice to the Boards of County Commissioners in the Counties where the proposed activities will occur. This notice also indicated that non-confidential information regarding the proposed activities will be available for review at the Division's website.
Reclamation	as been approved by the Mined Land Reclamation Board pursuant to section 34-32-113, C.R.S., of the Mined Land Act. Any alteration or modification of this form shall result in voiding any NOI issued on the altered or modified bject the operator to cease and desist orders and civil penalties for operating without a NOI pursuant to section 34- S.
	signed, being the NOI holder or the person authorized to sign on behalf of the NOI holder, declare that the information NOI form is true and correct.
	SIGNATURES MUST BE IN BLUE INK
Signed and	dated this 27 day of September 2012

## Rosenberger

Rosenberger Site Solutions

#### Description

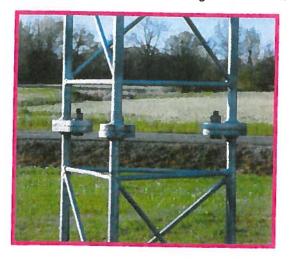
The DT Lightweight Tower is designed for a number of communication applications. Built with 1" solid round legs and  $\frac{1}{2}$ " solid rod bracing, this pre-engineered tower provides strength and efficiency.

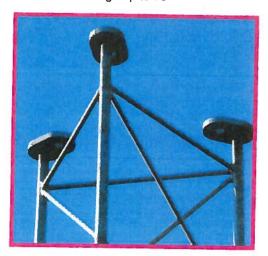
The DT Lightweight tower is designed per /TIA 222 rev. G code and is rated for 90mph wind speed.

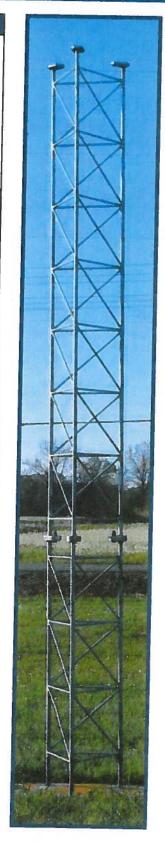
By using 10' increments, this tower can achieve an overall height of 60 feet.

Tower Profile		
Load Location	Тор	
Maximum Height	60' Freestanding / 70' Bracketed*	
Minimum Height	10' Freestanding / 20' Bracketed*	
Standard 10' Section Weight	157 lbs	
5' Base Section Weight	ase Section Weight 78.5 lbs	
Leg Size	1"	
Leg Type	Solid Round	
Leg Connection	One Hole Bolted Flange	
Bracing Type/Size	½" Solid Rod	
Bracing Connection	100% Welded	
Engineering	Pre-Engineered	
EPA Load Range		
Design/ Length	Load	
60 Feet	5.4 square feet w/ 4- ½" coax cables	
50 Feet	11.6 square feet w/ 4- 1/2" coax cables	
40 Feet	19.9 square feet w/ 4- 1/2" coax cables	
30 Feet	33.5 square feet w/ 4- 1/2" coax cables	

<sup>\*</sup> Note: With proper wall bracketing between 15' to 20' elevations can go up to 70'







Rosenberger Site Solutions, LLC. Call 1.866.598.5250 or visit www.RLSS.us

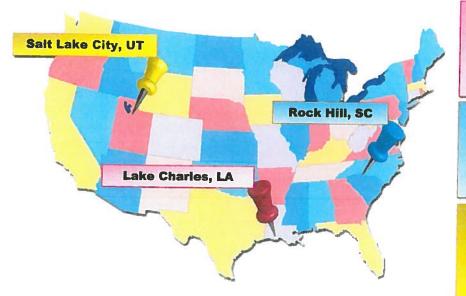
## Rosenberger

Rosenberger Site Solutions

## Light Duty Tower with Hinged Base Plate & Standoff Frame



Part Number	Description	
DTM10DSST	Lightweight Tower 10' Section 1" Solid Round Legs with 1/2" Solid Rod Bracing (157 lbs)	
DTM5LDSSTB	Lightweight Tower Base 5' Section 1" Solid Round Legs with 1/2" Solid Rod Bracing (78.5 lbs)	
DTM-LD-HDG	Light Duty Tower Hinged Base Plate	
DT99560	Tower Mount Standoff Frame	



#### **Central Location Headquarters 102 Dupont Drive** Lake Charles LA 70606

Phone: 337.598.5250 Fax: 337.598.5290

**East Coast Location Charlotte Metro Area** 205 Quantz Dr. Rock Hill, SC 29730 Phone: 803.233.3208 Fax: 803,233,2698

**West Coast Location** 1250 S. 3600 W. Salt Lake City, **UT 84104** 

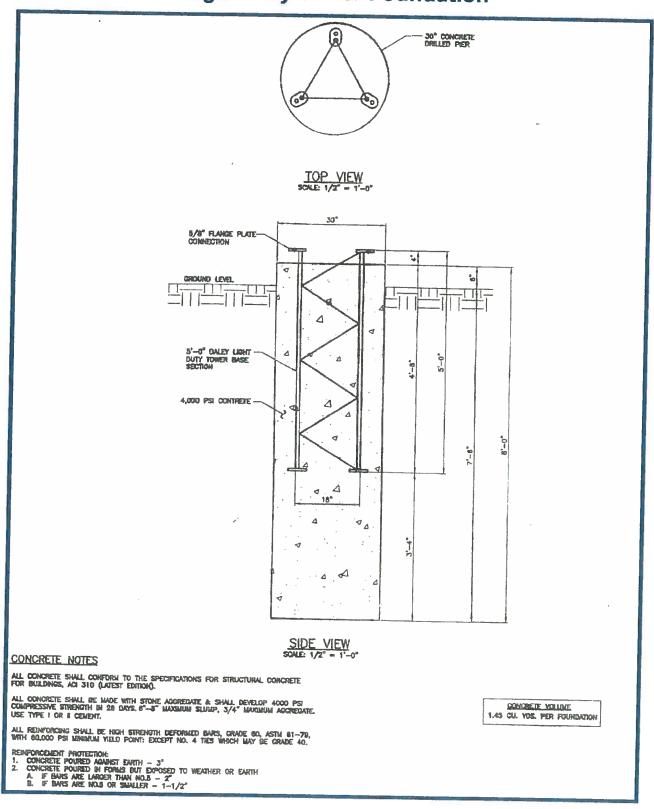
Phone: 801.972.3525 Fax: 801.886.3215

Rosenberger Site Solutions, LLC. Call 1.866.598.5250 or visit www.RLSS.us

## Rosenberger

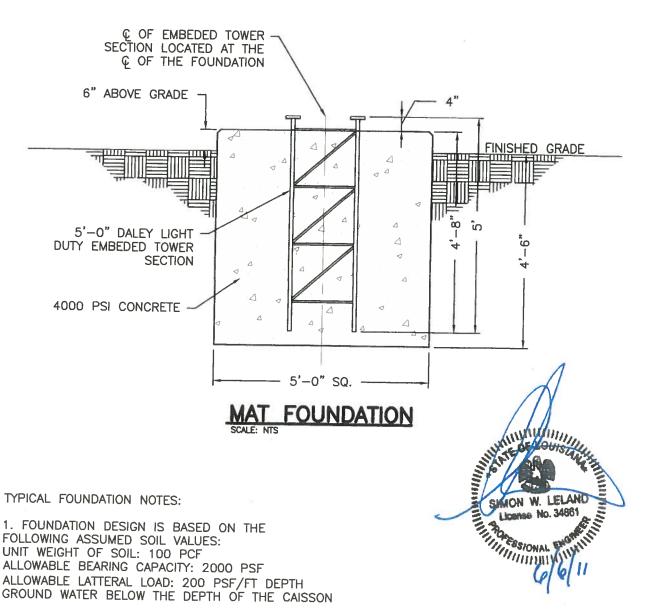
Rosenberger Site Solutions

### **Light Duty Tower Foundation**



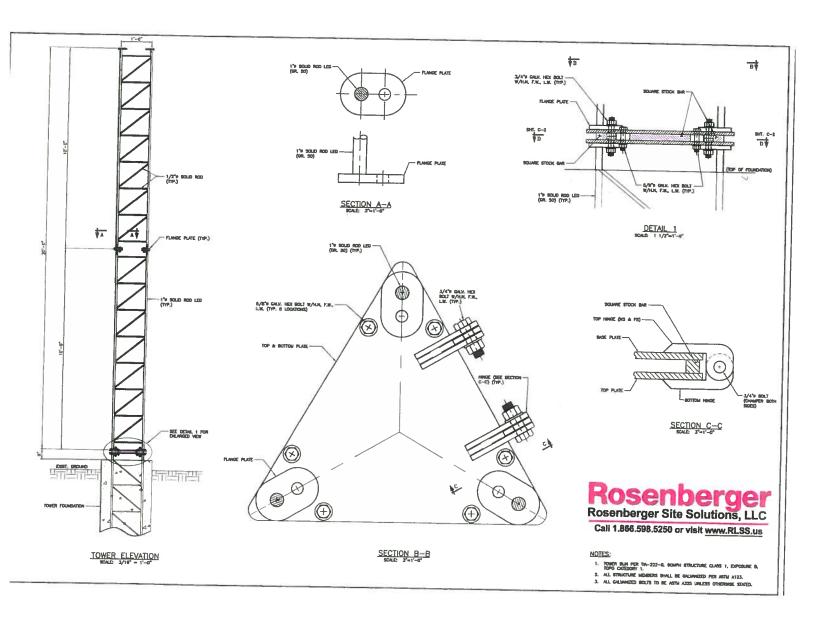
### Rosenberger Rosenberger Site Solutions

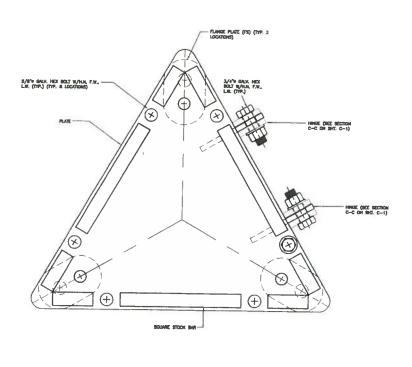
### **Light Duty Tower Foundation**



- 2. ALL FOUNDATION CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI WITHIN 28 DAYS OF PLACEMENT. PROPORTIONING OF THE CONCRETE MIX SHALL BE DESIGNED BY AN APPROVED LABORATORY. ALL CONCRETE CONSTRUCTION SHALL BE IN ACCORDANCE WITH ACI 318, "THE BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE", LATEST EDITION. CEMENT SHALL BE TYPE II, LOW ALKALI, CONFORMING TO ASTM C-150. ALL AGGREGATE USED IN THE CONCRETE SHALL CONFORM TO ASTM C-33. USE ONLY AGGREGATES KNOWN NOT TO CAUSE EXCESSIVE SHRINKAGE.
- 3. ESTIMATED CONCRETE VOLUME = 4.7 CUBIC YARDS.
- 4. THE FOUNDATION HAS BEEN DESIGNED TO RESIST THE FOLLOWING FACTORED LOADS: OVERTURNING MOMENT: 26,000 FT\*LBS; SHEAR: 750 LBS; AXIAL: 1200 LBS.

Rosenberger Site Solutions, LLC. Call 1.866.598.5250 or visit www.RLSS.us





SECTION D-D

