

**Special Condition #3**  
**Impact on the Directional Antenna employed by KHOB-AM, 1390 KHz, Hobbs, NM**  
**and by KKel-AM**

**Background:**

KPER-FM was granted a construction permit (KPER CP) for full Class C3 facilities in May of 2003. The KPER-CP required that construction of the new KPER tower and installation of the KPER antenna cause no harm to the directional antenna operation of KHOB-AM, Hobbs, NM, located some 3.2 kilometers (1.975 miles) WNW of KPER. KHOB-AM has been operating on a succession of Special Temporary Authority grants (STA) beginning in the Fall of 2002. These STAs permitted, among other things, “[operation] with ... an emergency non-directional antenna.” Prior to the commencement of tower construction, I initiated communications with individuals at the FCC and at KHOB to ascertain what course of action might be most appropriate in this case.

KKEL-AM is dark and has been so since at least February 1998. A 2002 application to transfer KKel-AM was dismissed citing this condition. Thus no measurements or other efforts were expended in connection with KKel-AM<sup>1</sup>.

KHOB-AM appears still to be operating with an emergency non-directional antenna and that is what KPER was forced to measure. In a telephone call with Frank McCoy, directional antenna operation was described as being “down” by Dwayne Burris, the KHOB-AM Operations Manager<sup>2</sup>. Burris was able to offer no likely date for completion of repairs but assured KPER that if repairs to the directional antenna were undertaken at any time following completion of the “before” field measurements, that KHOB would make this known to KPER. No such communication was received from KHOB by KPER<sup>3</sup>. Additionally, KHOB indicated that it had acquired a new transmitter capable of 5 KW operation and was awaiting installation of the new transmitter. Based on the close in fields taken on the 10.5° radial, it appears KHOB is operating at the same power. Thus by external measurement and monitoring for pattern change, there appears to be no change in KHOB’s nominal modes of operation and the station is still using the emergency non-directional antenna.

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<sup>1</sup> A CDBS entry showing the dismissal and reasons is attached.

<sup>2</sup> KPER further notified KHOB of the plan to construct the tower and sought cooperation, even so far as offering to refer a consulting engineer to help with repairs and tune-up of the directional antenna. See attached Memorandum sent Certified Mail to the licensees of KHOB. The return receipt is also attached.

<sup>3</sup> It is worth noting that the emergency non-directional antenna is almost certainly the same non-directional antenna that KHOB uses for licensed day operation, being part of KHOB’s three-tower in-line directional antenna array. The array towers lie along bearing 304° True. During non-directional operation, two of the three towers are considerably less than one wavelength (100° and 200° spaced, respectively) distant from the non-directional tower. As such, detuning networks must be employed to assure equal fields in all directions from KHOB. If directional antenna operation is “down” and KHOB has been unable to restore operation of the licensed night facility, probably these detuning networks have received little attention. They may even have been cannibalized for spare parts needed in the repair of the night pattern tuning and phasing networks.

**Conclusion:**

In the absence of an operating directional antenna at KHOB, it is virtually impossible to prove compliance with the Special Condition. Using the non-directional pattern and the licensed proof radials there are small variances in average ratio, consistent with seasonal variations, continued drift of the detuning networks at KHOB or any of a number of other possible factors unrelated to the construction of the KPER tower. In an attached email, Joe Szczesny opines that, absent reasonable compliance with night license requirements on the part of KHOB, the Special Condition requirement is moot. Despite several calls, there was no conclusive direction given by the FCC staff as to how this should be handled. Thus KPER undertook the required measurements.

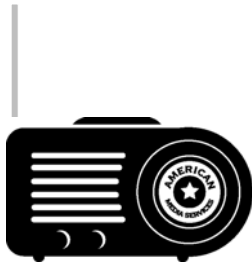
Frank McCoy

Technical Consultant to KPER-FM

## Public Notice Comment

BAL-  
20021210ABD

Involuntary Assignment of License, as amended  
From: ROBERT D. COKER & JUDY G. COKER  
To: KWEW, INC., ELLEN F. WHITMORE, A SINGLE WOMAN AND WIDOW Form  
316  
DISMISSED, UNACCEPTABLE FOR FILING  
STATION SILENT SINCE FEBRARY 1998 , LICENSE FOR THIS STATION HAS  
EXPIRED.



# Memorandum

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**To:** Rosemary Houston c/o Glenn Houston  
**CC:** Harmon Hann, KHOB-AM General Manager  
**From:** Frank McCoy  
**Date:** 8/25/2004  
**Re:** Measurements of KHOB-AM Directional Antenna

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As you may be aware, KPER-FM is constructing a new tower near their existing tower. A copy of the FCC Construction Permit is attached.

You will note that special condition #3 requires that we take measurements before and after construction to verify that the new tower has had no adverse effect on your antenna. I have prepared the required maps for this work and have delivered them to the engineer that will be doing the measurements for us.

In a conversation with Dwayne Burris of Williams and Houston, Ltd. I was given to understand that the KHOB-AM directional antenna is not operational. Mr. Burris described it as "down." He informs me that an STA is in place in connection with operating at reduced power to comply with monitor point maximums at night. In order that the construction proceed on schedule, would you have any objection to our fulfilling this FCC requirement by measuring the daytime operation, provided the FCC agrees?

I have put in a call to the FCC processing engineer that issued the KPER construction permit to ask what the Staff thinks is the appropriate way to address the situation.

Yours,

## SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

## 1. Article Addressed to:

AMERICAN ASSET MGMT  
1000 E. SANGER  
HOBBS, NM 88240

## 2. Article Number

(Transfer from service label)

7002 2030 0001 9286 6202


PS Form 3811, August 2001

Domestic Return Receipt

102595-02-M-1540

## COMPLETE THIS SECTION ON DELIVERY

## A. Signature

X *Dwayne Burris*  ☒ Agent ☐ Addressee

## B. Received by (Printed Name)

*DWAYNE BURRIS*

## C. Date of Delivery

2004

D. Is delivery address different from item 1? ☒ YesIf YES, enter delivery address below: ☐ No

## 3. Service Type

- ☒ Certified Mail ☐ Express Mail  
☐ Registered ☐ Return Receipt for Merchandise  
☐ Insured Mail ☐ C.O.D.

## 4. Restricted Delivery? (Extra Fee)

☐ Yes

**From:** "Joseph Szczesny" <Joseph.Szczesny@fcc.gov>  
**To:** "Son Nguyen" <Son.Nguyen@fcc.gov>  
**Date:** 8/31/2004 2:39:15 PM  
**Subject:** KHOB(AM) and KPER BPH-20030127AAI

Son:

Mr. Frank McCoy (847-540-5410, e-mail = fm@ams.fm) represents FM station KPER, regarding the permit BPH-20030127AAI. The permit includes a partial proof condition for the KHOB night DA pattern.

KHOB appears to be operating on the attached STA (expired in July) based upon a recent conversation between Mr. McCoy and the licensee of KHOB. As a result it appears that the KHOB partial proof condition is moot if the FM tower is constructed before KHOB resumes licensed operation, and KPER could simply include a statement to that effect in the license application when filed.

Mr. McCoy was planning on taking before and after measurements on KHOB, but is concerned that the measurements could change if KHOB alters parameters during that time which is a possibility, and this could leave the FM license application open to a possible objection for not meeting the partial proof condition.

Please let me know what action you recommend KPER take at this point to avoid any legal problems in the future.

Joe

PS: I will send a copy of this e-mail to Norm because a new extension of STA may have to be granted to confirm STA operation now before we can provide an answer to McCoy.

<<khob2.ext.doc>>

**CC:** "Charles Miller" <Charles.Miller@fcc.gov>, <fm@ams.fm>

**Frank McCoy - RE: KHOB(AM) and KPER BPH-20030127AAI**

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**From:** "Charles Miller" <Charles.Miller@fcc.gov>  
**To:** "Joseph Szczesny" <Joseph.Szczesny@fcc.gov>, "Son Nguyen" <Son.Nguyen@fcc.gov>  
**Date:** 9/1/2004 8:15 AM  
**Subject:** RE: KHOB(AM) and KPER BPH-20030127AAI  
**CC:** <fm@ams.fm>

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I do not have a request for further extension of STA from KHOB, nor do my records show a notification of return to licensed operation.

Charles N. "Norm" Miller  
Electronics Engineer  
Media Bureau, Audio Division  
Federal Communications Commission  
charles.miller@fcc.gov  
Phone: (202) 418-2767  
FAX: (202) 418-1411

-----Original Message-----

**From:** Joseph Szczesny  
**Sent:** Tuesday, August 31, 2004 3:51 PM  
**To:** Son Nguyen  
**Cc:** Charles Miller; 'fm@ams.fm'  
**Subject:** KHOB(AM) and KPER BPH-20030127AAI

Son:

Mr. Frank McCoy (847-540-5410, e-mail = fm@ams.fm) represents FM station KPER, regarding the permit BPH-20030127AAI. The permit includes a partial proof condition for the KHOB night DA pattern.

KHOB appears to be operating on the attached STA (expired in July) based upon a recent conversation between Mr. McCoy and the licensee of KHOB. As a result it appears that the KHOB partial proof condition is moot if the FM tower is constructed before KHOB resumes licensed operation, and KPER could simply include a statement to that effect in the license application when filed.

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Please let me know what action you recommend KPER take at this point to avoid any legal problems in the future.

Joe

PS: I will send a copy of this e-mail to Norm because a new extension of STA may have to be granted to

confirm STA operation now before we can provide an answer to McCoy.

<< File: khob2.ext.doc >>



**FEDERAL COMMUNICATIONS COMMISSION  
445 TWELFTH STREET SW  
WASHINGTON DC 20554**

**MEDIA BUREAU / OFFICE OF BROADCAST LICENSE POLICY  
AUDIO DIVISION  
APPLICATION STATUS:** (202) 418-2730  
**HOME PAGE:** [www.fcc.gov/mb/audio/](http://www.fcc.gov/mb/audio/)

**ENGINEER:** CHARLES N. (NORM) MILLER  
**TELEPHONE:** (202) 418-2767  
**FACSIMILE:** (202) 418-1410  
**E-MAIL:** [charles.miller@fcc.gov](mailto:charles.miller@fcc.gov)

January 15, 2004

Mr. Dwayne Burris  
American Asset Management, Inc.  
1000 East Sanger  
Hobbs, New Mexico 88240

Re: KHOB(AM), Hobbs, New Mexico  
Facility Identification Number: 1313  
American Asset Management, Inc.  
Special Temporary Authority

Dear Mr. Burris:

This is in reference to your letter dated September 18, 2003, filed on behalf of American Asset Management, Inc. ("AAM"). A second extension is requested of the special temporary authority ("STA") originally granted on November 13, 2002, and modified on December 24, 2002, to operate Station KHOB with reduced power and an emergency nondirectional antenna.<sup>1</sup>

In support of the request, AAM states that it has encountered additional delays in delivery of a replacement transmitter, and that repairs to the directional antenna will be made shortly following delivery and installation of the transmitter.

Requests for extension of STA will be granted only where the licensee can show that one or more of the following criteria have been met:

- Restoration of licensed facilities is complete and testing is underway;
- Substantial progress has been made during the most recent STA period toward restoration of licensed operation; or
- No progress has been made during the most recent STA period for reasons clearly beyond the licensee's control, and the licensee has taken all possible steps to expeditiously resolve the problem.

Our review indicates that the licensee has been prevented from restoring licensed operation due to causes beyond its control; thus, extension of STA is warranted.

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<sup>1</sup> KHOB is licensed for operation on 1390 kHz with 5 kilowatts daytime and 0.5 kilowatt nighttime, employing a directional antenna during nighttime hours only (DA-N-U).

Accordingly, the request for extension of STA IS HEREBY GRANTED. Station KHOB may continue to operate during nighttime hours with an emergency nondirectional antenna and with reduced power not to exceed 125 watts, pending restoration of licensed nighttime directional operation. AAM must notify the Commission when licensed operation is restored.<sup>2</sup> AAM must use whatever means are necessary to protect workers and the public from exposure to radio frequency radiation in excess of the Commission's exposure guidelines. *See* 47 CFR § 1.1310.

This authority expires on **July 15, 2004**.

Sincerely,

Edward P. DeLaHunt, Associate Chief  
Audio Division  
Office of Broadcast License Policy  
Media Bureau

cc: American Asset Management, Inc.

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<sup>2</sup> *See* 47 CFR §§ 73.45(c), 73.51, 73.54, 73.61(b).

# Southwestern Trails Technologies, Inc.

**Kenneth L. Bass – Broadcast Consultant**

**P O Box 1109 – Alamogordo, NM 88311-1109**

**Phone: 505-585-6405 Fax: 505-585 6506**

**FIM Before - KHOB, Hobbs, NM Bearing 10.5 deg.**

Point	Time	Date	Reading	Distance	Location
1 A	10:53 a	9/9/04	1.25 v/m	0.1 mi	Gravel Pit fence
B	11:00 a		0.78 v/m*	0.2 mi	West of pit, east side of Bensing Rd.
C	11:07 a		1.08 v/m	0.3 mi	E. side of Bensing N. of Elm Tree
D	11:14 a		0.70 v/m	0.4 mi.	In field in line with rig and wht building
E	11:43 a		0.36 v/m	0.5 mi	“
F	11:50 a		0.27 v/m	0.6 mi	“
G	11:58 a		0.23 v/m	0.7 mi	“
H	12:11 p		0.18 v/m	0.8 mi	“
I	12:22 p		0.13 v/m	0.9 mi	“ in sinkhole (old lake bed)
J	12:28 p		0.10 v/m	1.0 mi	“ east eadge of hole west or railroad track
2 A	12:36 p		64 mv/m*	1.1 mi	East edge of US 18 (Lovington Hwy) by Wht Bld.
B	12:44 p		74 mv/m*	1.2 mi	East corner of Wht Building
C	12:58 p		48 mv/m*	1.3 mi	In field in line with rig and radio tower ahead
D	1:10 p		52 mv/m*	1.4 mi	“ across Joe Harvey Blvd.
E	1:16 p		76 mv/m*	1.5 mi	“
F	1:23 p		71 mv/m*	1.6 mi	“
G	1:27 p		66 mv/m*	1.7 mi	“
H	1:35 p		70 mv/m*	1.8 mi	“;
I	1:42 p		90 mv/m	1.9 mi	“
J	1:48 p		84 mv/m	2.0 mi	“
3 A	2:05 p		76 mv/m	2.1 mi	“
B	2:16 p		68 mv/m	2.2 mi	“ at corner fence post
C	2:21 p		57 mv/m	2.3 mi	“
D	2:27 p		55 mv/m	2.4 mi	“ across fence at shed
4	2:50 p		44 mv/m	3.1 mi	Unmarked Road 50 paces so of Kansas St.
5	3:10 p		23 mv/m	4.1 mi	Alabama St. 20 paces W of Aztec St, S. edge pavemt.
6	3:40 p		14.8 mv/m	5.7 mi	at ½ section fence with windmill to SSW
7	3:30 p		10.8 mv/m	6.5 mi	Big rock S. side. ½ way between util. poles
8	3:55 p		2.9 mv/m*	7.2 mi	¾ mi W of Knowles on Pinson 8 fence posts W of orange topped “T” post
9	4:05 p		9.6 mv/m	8.2 mi	½ mi W of Knowles on Styles by cow pin
10	4:15 p		2.8 mv/m*	9.0 mi	at 3 phase meter drop w/orange M80 box
11	4:20 p		6.4 mv/m	9.2 mi	at Green Gate in middle of roadway
12			BLOCKED		
13	4:35 p		4.7 mv/m	11.2 mi	.1 mi W of Knowles on Thornhill. Opposite white of rocks by piece of tin under fence
pile					
14	4:40 p		4.7 mv/m	11.8 mi	.5 mi N of Thornhill on gravel road middle of S curve
15	4:52 p		2.55 mv/m	14.3 mi	.6 mi W of Drive Thru Porn Shop Hwy 83 off 132
16	5:00 p		2.20 mv/m	15.8 mi	.6 mi on road at curve to Denver City before mudhole
17	5:30 p		1.70 mv/m	16.9 mi	Bottom of hole by windmill at road junctions
18	5:35 p		0.82 mv/m*	17.9 mi	Middle o’ nowhere
19	5:45 p		1.45 mv/m	18.1 mi	Middle o’ nowhere

\* Power Lines nearby

# Southwestern Trails Technologies, Inc.

**Kenneth L. Bass – Broadcast Consultant**

**P O Box 1109 – Alamogordo, NM 88311-1109**

**Phone: 505-585-6405 Fax: 505-585 6506**

**FIM Before - KHOB, Hobbs, NM Bearing 49 deg.**

Point	Time	Date	Reading	Distance	Location
1	2:55 p	9/10/04	255 mv/m	0.5 mi	4/10 mi on dirt road NW from Bensing Rd
2	3:20 p		440 mv/m*	1.0 mi	Middle of roadway at Roadside Park by Flagpole
3	3:42 p		92 mv/m	1.7 mi	On Joe Harvey across from tan brick home w/brass lamps on gate posts
4	3:50 p		40 mv/m	2.6 mi	W side of Knowles at Lovelady
5	3:55 p		29 mv/m*	3.2 mi	corner of Eva & N. Fowler w/ dirt road to right
6	4:00 p		22 mv/m*	3.9 mi	Denver Cty Hwy between Santa Fe and Katy sts.
7	4:05 p		21 mv/m	4.4 mi	Linda Road at Eunice
8	4:10 p		14 mv/m	5.0 mi	Opposite 1915 Kansas, N side of road
9			BLOCKED		
10	4:21 p		11.5 mv/m	6.5 mi	Past driveway on south side
11	4:30 p		8.0 mv/m	9.5 mi	on ridge top .4 mi past state line on E. Lawrence
12	4:50 p		5.2 mv/m	12.2 mi	on drive to barn at intersection of 2 circular fields
13	4:45 p		5.5 mv/m	12.9 mi	Just past pipeline markers before rise
14	4:58 p		3.0 mv/m*	14.0 mi	at sandy stretch, next to power pole
15	5:12 p		3.8 mv/m*	14.4 mi	at ridge before downhill past power line
16	5:08 p		3.9 mv/m	14.6 mi	at wide spot in road
16a	5:23 p		2.9 mv/m	16.0 mi	at ridge just past well on left w/fenceline
17	5:33 p		2.4 mv/m	17.0 mi	N side of hwy top of ridge past draw by Higg Rance Gravel Pit
18	5:40 p		2.25 mv/m	18.5 mi	W. .4 mi from corner on rise
19	5:56 p		2.15 mv/m*	20.3 mi	Bottom of low spot next to power line

\* Power Lines nearby

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**P O Box 1109 – Alamogordo, NM 88311-1109**

**Phone: 505-585-6405 Fax: 505-585 6506**

## **FIM Before - KHOB, Hobbs, NM Bearing 199 deg.**

Point	Time	Date	Reading	Distance	Location
1	8:20 a	9/11/04	172 mv/m	0.8 mi	.35 mi W of Bensing on Jones, N edge of road by Horse Arena
2	8:37 a		161 mv/m	1.0 mi	by mailbox @ 3902 W Bender
3			BLOCKED		
4	9:33 a		62 mv/m	1.8 mi	S on Roberts from Bender, Rt at OXY Sat 25 sign .16 mi. Point on N side of rd opposite old well head
5	10:21 a		43 mv/m	2.7 mi	Royco Road N to 2 tanks on Rt. Turn Rt. 20 yards
6	10:09 a		32 mv/m	3.1 mi	at 101 mi marker on W/B US 62 at S edge by broken off utility pole
7	10:35 a		27.9 mv/m	3.6 mi	S from 62 on Jim Murray to S edge of C/C. West on golf cart path to orange stripe then N to middle of fairway at ground marker "162/150" by green sprinkler valve cover
8	5:17 p		8.8 mv/m	5.9 mi	Behind oil well with Case 4391 model Red Engine
9	5:29 p		7.9 mv/m	6.9 mi	W of pipeline marker 20 paces
10	5:41 p		4.2 mv/m	8.3 mi	.9 mi SW of curve on Monument Rd at 2 green "T" posts to south with white tops
11	4:50 p	9/04/04	2.6 mv/m	8.7 mi	50 yds past bend in road on N edge with P/J and tanks 50 ft to east and 3 short and 1 tall tanks distant at 15 deg
12	4:36 p		2.58 mv/m*	9.3 mi	In old road area left after road rebuilt to curve. Point at east edge of area 25 paces south of power lines.
13	4:24 p		6.1 mv/m*	10.0 mi	Lea Co Rt 45 (Billy Walker Rd) W from NM 18 6.1 mi. Go strait on gravel when Rt 45 bends to Right distance of .14 mi. Point on road between power poles to N.
14	6:10 p	9/11/04	5.5 mv/m	10.7 mi	at base of Alkali deposit in middle of pumpjack pad
15	6:49 p		4.8 mv/m	12.0 mi	west on stub road .2 mi prior to gas compressor sta.
16	6:55 p		3.6 mv/m	12.4 mi	back to main road and go south to next left. Middle of pumpjack pad
17, 18, 19 & 20 Radial extends into area which is not accessible by roads					
21	1:11 p	9/03/04	1.85 mv/m	18.3 mi	N of green oil tank and jack in middle of road
22	1:26 p		1.5 mv/m	19.2 mi	on N shoulder of NM 176 by large Mesquite bush
23	1:38 p		0.4 mv/m*	20.4 mi	E shoulder of Weaver Rd at low place 1.05 mi S of NM 176
24	1:57 p		0.95 mv/m	22.4 mi	S edge of road before orange "30 mph" sign
25	2:17 p		0.77 mv/m	24.4 mi	Rt side of Pipeline marker by green sign "16 w/rt arrow – 12 w/left arrow"

\* Power Lines nearby

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**Kenneth L. Bass – Broadcast Consultant**

**P O Box 1109 – Alamogordo, NM 88311-1109**

**Phone: 505-585-6405 Fax: 505-585 6506**

**FIM Before - KHOB, Hobbs, NM Bearing 237.5 deg.**

Point	Time	Date	Reading	Distance	Location
1	8:55 a	9/11/04	122 mv/m	0.9 mi	center of road in line w/KHOB center twr front and wellhead to rear.
2	8:46 a		111 mv/m	1.1 mi	Center of road in line w/KHOB center twr front and leftmost of 3 highline poles between
3	9:07 a		85 mv/m	1.4 mi	E edge of road by NM Land Office Sign on fence “No Dumping” with old sofa in ditch between
4			BLOCKED		
5	10:40 a		21.2 mv/m	3.6 mi	Lynn Rd Rt. from US 62. 0.8 mi. Take old road at Rt. Fork .2 mi staying right toward windmill under highline. Point at highpoint of road just short of next fork.
6			BLOCKED		
7	10:52 a		10.2 mv/m	5.5 mi	on US 62 approx. 1 mi east of Gas Plant on N. edge of Highway between fence sign “400” and orange top pipeline marker
8	11:36 a		7.9 mv/m	6.7 mi	At mesquite grove .1 mi north of oil well and tanks
9	11:51 a		5.95 mv/m	8.2 mi	1.4 mi so on Maddox road from 62, center of road at top of “Y” to east
10	12:13 p		1.98 mv/m*	9.0 mi	Center of cross road .7 mi S from point 9
11	12:38 p		1.7 mv/m	10.4 mi	across causeway 20 yards from next fork in road
12	12:51 p		1.62 mv/m	11.1 mi	Between 2 pipe line crossings at N/W end of old “T” post fence blocking side road
13	1:10 p		1.55 mv/m	12.4 mi	Take Pearl Valley Rd .8 mi to Poison Gas warning sign at first left (an old road). Go .8 mi to low point in mesquite grove ½ mi north of windmill
14	1:33 p		1.42 mv/m	13.7 mi	Left from Pearl Vally Rd at Old Ranch Sign on left 1.5 mi past curve. Point in pull-out at right
15			BLOCKED		FLAT TIRE ON WAY TO LOCKED GATE
16	2:59 p		1.32 mv/m	16.1 mi	.5 mi down old road at 45 deg from main road at S/E end of mesquite grove. Windmill visible to left on horizon
17	3:35 p		1.08 mv/m	18.5 mi	S edge of main road at center of stub road to north
18	3:46 p		1.02 mv/m	18.8 mi	in dunes area on road due south of old utility pole visible 100 yds to north

No more points on this radial accessible

\* Power Lines nearby

**Southwestern Trails Technologies, Inc.**  
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**Phone: 505-585-6405 Fax: 505-585 6506**

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Point	Time	Date	Reading	Distance	Location
1 A	12:40 p	4/12/05	1.15 v/m	0.1 mi	Gravel Pit fence
B	12:45 p		0.52 v/m*	0.2 mi	West of pit, east side of Bensing Rd.
C	1:05 p		1.06 v/m	0.3 mi	E. side of Bensing N. of Elm Tree
D	1:20 p		0.70 v/m	0.4 mi	In field in line with rig and wht building
E	1:39 p		0.34 v/m	0.5 mi	"
F	1:46 p		0.27 v/m	0.6 mi	"
G	12:50 p		0.23 v/m	0.7 mi	"
H	1:35 p		0.15 v/m	0.8 mi	"
I	1:42 p		0.13 v/m	0.9 mi	" in sinkhole (old lake bed)
J	1:25 p		0.11 v/m	1.0 mi	" east edge of hole west or railroad track
2 A	11:10 a		102 mv/m*	1.1 mi	East edge of US 18 (Lovington Hwy) by Wht Bld.
B	11:15 a		86 mv/m*	1.2 mi	East corner of Wht Building
C	12:58 p		49 mv/m*	1.3 mi	In field in line with rig and radio tower ahead
D	11:27 a		62 mv/m*	1.4 mi	" across Joe Harvey Blvd.
E	11:29 a		60 mv/m*	1.5 mi	"
F	11:31 a		59 mv/m*	1.6 mi	"
G	11:33 a		58 mv/m*	1.7 mi	"
H	11:36 a		60 mv/m*	1.8 mi	"
I	11:40 a		89 mv/m	1.9 mi	"
J	11:44 a		83 mv/m	2.0 mi	"
3 A	11:48 a		74 mv/m	2.1 mi	"
B	11:53 a		65 mv/m	2.2 mi	" at corner fence post
C	11:55 a		55 mv/m	2.3 mi	"
D	11:58 a		53 mv/m	2.4 mi	" across fence at shed
4	12:06 p		42 mv/m	3.1 mi	Unmarked Road 50 paces so of Kansas St.
5	12:18 p		21 mv/m	4.1 mi	Alabama St. 20 paces W of Aztec St, S. edge pavemt.
6	1:56 p		13.5 mv/m	5.7 mi	at ½ section fence with windmill to SSW
7	1:50 p		11.8 mv/m	6.5 mi	Big rock S. side. ½ way between util. poles
8	1:58 p		8.7 mv/m*	7.2 mi	¾ mi W of Knowles on Pinson 8 fence posts W of orange topped "T" post
9	2:10 p		9.2 mv/m	8.2 mi	½ mi W of Knowles on Styles by cow pin
10	2:24 p		4.7 mv/m*	9.0 mi	at 3 phase meter drop w/orange M80 box
11	2:32 p		6.4 mv/m	9.2 mi	at Green Gate in middle of roadway
12			BLOCKED		
13	2:38 p		4.7 mv/m	11.2 mi	.1 mi W of Knowles on Thornhill. Opposite white pile of rocks by piece of tin under fence
14	2:41 p		4.7 mv/m	11.8 mi	.5 mi N of Thornhill on gravel road middle of S curve
15	2:50 p		2.95 mv/m	14.3 mi	.6 mi W of Drive Thru Porn Shop Hwy 83 off 132
16	3:00 p		BLOCKED	15.8 mi	.6 mi on road at curve to Denver City before mudhole
17	3:13 p		2.20 mv/m	16.9 mi	Bottom of hole by windmill at road junctions
18	3:28 p		2.28 mv/m*	17.9 mi	Middle o' nowhere
19	3:32 p		3.21 mv/m*	18.1 mi	Middle o' nowhere

\* Power Lines nearby ALSO NOTE: Since the last readings, a new race track grandstand (Zia Park) has been built with a high content of steel framework and roofing 1.03 miles from the center of KHOB's rig on radial #334. (See e-mail attachments)

# Southwestern Trails Technologies, Inc.

**Kenneth L. Bass – Broadcast Consultant**

**P O Box 1109 – Alamogordo, NM 88311-1109**

**Phone: 505-585-6405 Fax: 505-585 6506**

**FIM After - KHOB, Hobbs, NM Bearing 49 deg.**

Point	Time	Date	Reading	Distance	Location
1	1:00 p	4/10/05	256 mv/m	0.5 mi	4/10 mi on dirt road NW from Bensing Rd
2	1:13 p		120 mv/m*	1.0 mi	Middle of roadway at Roadside Park by Flagpole
3	1:35 p		96 mv/m	1.7 mi	On Joe Harvey across from tan brick home w/brass lamps on gate posts
4	1:50 p		44 mv/m	2.6 mi	W side of Knowles at Lovelady
5	2:00 p		31 mv/m*	3.2 mi	corner of Eva & N. Fowler w/ dirt road to right
6	2:10 p		23.5 mv/m*	3.9 mi	Denver Cty Hwy between Santa Fe and Katy sts.
7	2:20 p		22 mv/m	4.4 mi	Linda Road at Eunice
8	2:36 p		14.6 mv/m	5.0 mi	Opposite 1915 Kansas, N side of road
9			BLOCKED		
10	2:51 p		11.8 mv/m	6.5 mi	Past driveway on south side
11	3:05 p		8.2 mv/m	9.5 mi	on ridge top .4 mi past state line on E. Lawrence
12	4:55 p		5.3 mv/m	12.2 mi	on drive to barn at intersection of 2 circular fields
13	4:50 p		5.8 mv/m	12.9 mi	Just past pipeline markers before rise
14	4:40 p		2.9 mv/m*	14.0 mi	at sandy stretch, next to power pole
15	4:22 p		4.7 mv/m*	14.4 mi	at ridge before downhill past power line
16	4:18 p		4.3 mv/m	14.6 mi	at wide spot in road
16a	4:07 p		2.2 mv/m*	16.0 mi	at ridge just past well on left w/fence line
17	4:23 p		2.5 mv/m	17.0 mi	N side of hwy top of ridge past draw by Higg Ranch Gravel Pit
18	4:32 p		2.31 mv/m	18.5 mi	W. .4 mi from corner on rise
19	4:45 p		2.21 mv/m*	20.3 mi	Bottom of low spot next to power line

\* Power Lines nearby ALSO NOTE: Since the last readings, a new race track grandstand (Zia Park) has been built with a high content of steel framework and roofing 1.03 miles from the center of KHOB's rig on radial #334. (See e-mail attachments)



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**P O Box 1109 – Alamogordo, NM 88311-1109**

**Phone: 505-585-6405 Fax: 505-585 6506**

**FIM After - KHOB, Hobbs, NM Bearing 199 deg.**

Point	Time	Date	Reading	Distance	Location
1	8:40 a	4/11/05	160 mv/m	0.8 mi	.35 mi W of Bensing on Jones, N edge of road by Horse Arena
2	9:05 a		152 mv/m	1.0 mi	by mailbox @ 3902 W Bender
3			BLOCKED		
4	9:36 a		62 mv/m	1.8 mi	S on Roberts from Bender, Rt at OXY Sat 25 sign .16 mi. Point on N side of rd opposite old well head
5	9:40 a		38 mv/m	2.7 mi	Royco Road N to 2 tanks on Rt. Turn Rt. 20 yards
6	9:45 a		32 mv/m	3.1 mi	at 101 mi marker on W/B US 62 at S edge by broken off utility pole
7	9:55 a		28 mv/m	3.6 mi	S from 62 on Jim Murray to S edge of C/C. West on golf cart path to orange stripe then N to middle of fairway at ground marker "162/150" by green sprinkler valve cover
8	10:15 a		11.2 mv/m**	5.9 mi	Behind oil well with Case 4391 model Red Engine
9	10:20 a		7.9 mv/m**	6.9 mi	W of pipeline marker 20 paces
10	10:30 a		6.2 mv/m**	8.3 mi	.9 mi SW of curve on Monument Rd at 2 green "T" posts to south with white tops
11	10:45 a		3.2 mv/m	8.7 mi	50 yds past bend in road on N edge with P/J and tanks 50 ft to east and 3 short and 1 tall tanks distant at 15 deg
12	10:55 a		2.7 mv/m*	9.3 mi	In old road area left after road rebuilt to curve. Point at east edge of area 25 paces south of power lines.
13	11:08 a		6.2 mv/m*	10.0 mi	Lea Co Rt. 45 (Billy Walker Rd) W from NM 18 6.1 mi. Go strait on gravel when Rt 45 bends to Right distance of .14 mi. Point on road between power poles to N.
14	11:16 a		5.5 mv/m	10.7 mi	at base of Alkali deposit in middle of pump-jack pad
15	11:30 a		5.0 mv/m	12.0 mi	west on stub road .2 mi prior to gas compressor sta.
16	11:40 a		3.7 mv/m	12.4 mi	back to main road and go south to next left. Middle of pump-jack pad
17, 18, 19 & 20 - Radial extends into area which is not accessible by roads					
21	1:58 p		2.20 mv/m	18.3 mi	N of green oil tank and jack in middle of road
22	2:13 p		1.70 mv/m	19.2 mi	on N shoulder of NM 176 by large Mesquite bush
23	2:24 p		1.30 mv/m*	20.4 mi	E shoulder of Weaver Rd at low place 1.05 mi S of NM 176
24	2:30 p		0.98 mv/m	22.4 mi	S edge of road before orange "30 mph" sign
25	2:50 p		0.78 mv/m	24.4 mi	Rt. side of Pipeline marker by green sign "16 w/rt. arrow – 12 w/left arrow"

\* Power Lines nearby. ALSO NOTE: Since the last readings, a new race track grandstand (Zia Park) has been built with a high content of steel framework and roofing 1.03 miles from the center of KHOB's rig on radial #334. (See e-mail attachments)

\*\* NEW High Line crosses site which has been constructed since last reading.

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**Kenneth L. Bass – Broadcast Consultant**

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**Phone: 505-585-6405 Fax: 505-585 6506**

**FIM After - KHOB, Hobbs, NM Bearing 237.5 deg.**

Point	Time	Date	Reading	Distance	Location
1	8:35 a	4/13/05	124 mv/m	0.9 mi	center of road in line w/KHOB center twr front and wellhead to rear.
2	8:26 a		114 mv/m	1.1 mi	Center of road in line w/KHOB center twr front and leftmost of 3 highline poles between
3	8:42 a		104 mv/m	1.4 mi	E edge of road by NM Land Office Sign on fence “No Dumping” with old sofa in ditch between
4			BLOCKED		
5	9:10 a		24 mv/m	3.6 mi	Lynn Rd Rt. from US 62. 0.8 mi. Take old road at Rt. Fork .2 mi staying right toward windmill under highline. Point at highpoint of road just short of next fork.
6			BLOCKED		
7	9:35 a		11.2 mv/m	5.5 mi	on US 62 approx. 1 mi east of Gas Plant on N. edge of Highway between fence sign “400” and orange top pipeline marker
8	9:50 a		8.6 mv/m	6.7 mi	At mesquite grove .1 mi north of oil well and tanks
9	10:20 a		6.6 mv/m	8.2 mi	1.4 mi so on Maddox road from 62, center of road at top of “Y” to east
10	10:32 a		BLOCKED	9.0 mi	Center of cross road .7 mi S from point 9
11	10:40 a		BLOCKED	10.4 mi	across causeway 20 yards from next fork in road
12	10:45 a		3.6 mv/m	11.1 mi	Between 2 pipe line crossings at N/W end of old “T” post fence blocking side road
13	10:56 a		2.75 mv/m	12.4 mi	Take Pearl Valley Rd .8 mi to Poison Gas warning sign at first left (an old road). Go .8 mi to low point in mesquite grove ½ mi north of windmill
14	10:12 a		2.35 mv/m	13.7 mi	Left from Pearl Vally Rd at Old Ranch Sign on left 1.5 mi past curve. Point in pull-out at right
15			BLOCKED		FLAT TIRE ON WAY TO LOCKED GATE
16	11:40 a		1.77 mv/m	16.1 mi	.5 mi down old road at 45 deg from main road at S/E end of mesquite grove. Windmill visible to left on horizon
17	11:50 a		1.25 mv/m	18.5 mi	S edge of main road at center of stub road to north
18	12:05 p		1.06 mv/m	18.8 mi	in dunes area on road due south of old utility pole visible 100 yds to north

No more points on this radial accessible

\* Power Lines nearby

# KHOB Partial Proof Summary and Data Analysis

10.5 Degrees True

Point	Dist (mi)	Dist (km)	Before (mV/M)	After (mV/M)	Ratio	Close-in Ratio
1A	0.1	0.16	1250	1150	0.92	0.92
B	0.2	0.32	780	520	0.67	0.67
C	0.3	0.48	1080	1060	0.98	0.98
D	0.4	0.64	700	700	1.00	1.00
E	0.5	0.80	360	340	0.94	0.94
F	0.6	0.97	270	270	1.00	1.00
G	0.7	1.13	230	230	1.00	1.00
H	0.8	1.29	180	150	0.83	0.83
I	0.9	1.45	130	130	1.00	1.00
J	1.0	1.61	100	110	1.10	1.10
2A	1.1	1.77	64	102	1.59	1.59
B	1.2	1.93	74	86	1.16	1.16
C	1.3	2.09	48	49	1.02	1.02
D	1.4	2.25	52	62	1.19	1.19
E	1.5	2.41	76	60	0.79	0.79
F	1.6	2.58	71	59	0.83	0.83
G	1.7	2.74	66	58	0.88	0.88
H	1.8	2.90	70	60	0.86	0.86
I	1.9	3.06	90	89	0.99	0.99
J	2.0	3.22	84	83	0.99	0.99
3A	2.1	3.38	76	74	0.97	0.97
B	2.2	3.54	68	65	0.96	0.96
C	2.3	3.70	57	55	0.96	0.96
D	2.4	3.86	55	53	0.96	0.96
4	3.1	4.99	44	42	0.95	0.98
5	4.1	6.60	23	21	0.91	
6	5.7	9.17	14.8	13.5	0.91	
7	6.5	10.46	10.8	11.8	1.09	
8	7.2	11.59	2.9	8.7	3.00	
9	8.2	13.20	9.6	9.2	0.96	
10	9.0	14.48	2.8	4.7	1.68	
11	9.2	14.81	6.4	6.4	1.00	
12		0.00				
13	11.2	18.03	4.7	4.7	1.00	
14	11.8	18.99	4.7	4.7	1.00	
15	14.3	23.01	2.55	2.95	1.16	
16	15.8	25.43	2.2		0.00	
17	16.9	27.20	1.7	2.2	1.29	
18	17.9	28.81	0.82	2.28	2.78	
19	18.1	29.13	1.45	3.21	2.21	
Average ratio					1.12	

## KHOB Partial Proof Summary and Data Analysis

49 Degrees True

Point	Dist (mi)	Dist (km)	Before (mV/M)	After (mV/M)	Ratio
1	0.5	0.8047	255	256	1.00
2	1.0	1.6094	440	120	0.27
3	1.7	2.73598	92	96	1.04
4	2.6	4.18444	40	44	1.10
5	3.2	5.15008	29	31	1.07
6	3.9	6.27666	22	23.5	1.07
7	4.4	7.08136	21	22	1.05
8	5.0	8.047	14	14.6	1.04
9					
10	6.5	10.4611	11.5	11.8	1.03
11	9.5	15.2893	8	8.2	1.03
12	12.2	19.63468	5.2	5.3	1.02
13	12.9	20.76126	5.5	5.8	1.05
14	14.0	22.5316	3	2.9	0.97
15	14.4	23.17536	3.8	4.7	1.24
16	14.6	23.49724	3.9	4.3	1.10
16A	16.0	25.7504	2.9	2.2	0.76
17	17.0	27.3598	2.4	2.5	1.04
18	18.5	29.7739	2.25	2.31	1.03
19	20.3	32.67082	2.15	2.21	1.03
Average Ratio					<b>1.00</b>

## KHOB Partial Proof Summary and Data Analysis

199 Degrees True

Point	Dist (mi)	Dist (km)	Before (mV/M)	After (mV/M)	Ratio
1	0.8	1.29	172	160	0.93
2	1	1.61	161	152	0.94
3					
4	1.8	2.90	62	62	1.00
5	2.7	4.35	43	38	0.88
6	3.1	4.99	32	32	1.00
7	3.6	5.79	27.9	28	1.00
8	5.9	9.50	8.8	11.2	1.27
9	6.9	11.10	7.9	7.9	1.00
10	8.3	13.36	4.2	6.2	1.48
11	8.7	14.00	2.6	3.2	1.23
12	9.3	14.97	2.58	2.7	1.05
13	10	16.09	6.1	6.2	1.02
14	10.7	17.22	5.5	5.5	1.00
15	12	19.31	4.8	5	1.04
16	12.4	19.96	3.6	3.7	1.03
17					
18					
19					
20					
21	18.3	29.45	1.85	2.2	1.19
22	19.2	30.90	1.5	1.7	1.13
23	20.4	32.83	0.4	1.3	3.25
24	22.4	36.05	0.95	0.98	1.03
25	24.4	39.27	0.77	0.78	1.01
Average ratio					<u>1.17</u>

## KHOB Partial Proof Summary and Data Analysis

237.5 Degrees True

Point	Dist (mi)	Dist (km)	Before (mV/M)	After (mV/M)	Ratio
1	0.9	1.45	122	124	1.02
2	1.1	1.77	111	114	1.03
3	1.4	2.25	85	104	1.22
4					
5	3.6	5.79	21.2	24	1.13
6					
7	5.5	8.85	10.2	11.2	1.10
8	6.7	10.78	7.9	8.6	1.09
9	8.2	13.20	5.95	6.6	1.11
10					
11					
12	11.1	17.86	1.62	3.6	2.22
13	12.4	19.96	1.55	2.75	1.77
14	13.7	22.05	1.42	2.35	1.65
15					
16	16.1	25.91	1.32	1.77	1.34
17	18.5	29.77	1.08	1.25	1.16
18	18.8	30.26	1.02	1.06	1.04
Average ratio					<b>1.30</b>