

MAR 20100005: SMOKY RIVER

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ASSESSMENT REPORT

PART "B"

"SMOKY RIVER PROJECT"

ROY A. BICKELL
METALLIC INDUSTRIAL MINERALS
PERMIT NO. 9306020474

SUBMITTED BY:
ROY A. BICKELL
FEBRUARY 6, 2010


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Roy A. Bickell
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.....
February 6, 2010

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SUMMARY

"SMOKY RIVER PROJECT"

I have lived all my life (79 years) in the Debolt/Grande Prairie area. Early pioneers of the area have passed on stories of the possibilities of finding metallic minerals in the area of the permit using relatively inexpensive equipment. It should be quite easy to prove or disprove the stories. By progressively checking one area each year we should arrive at a decision.

To date, 30% of the area of the permit has been investigated with no positive results.

INTRODUCTION & WORK PERFORMED

Using a hand-held wand metal detector and by walking slowly back and forth on a predetermined grid - guided by a G.P.S. unit and supplemented by line-of-site and flagging, a portion of the permit area was covered.

In addition, I have used an electroscope to re-check the area covered by the metal detector in order to provide a "second look".

The areas covered are noted on the attached map.

The hand-held metal detector make is "Whites Electronics" "Model PRL-1" with "UCL 950 Loop".

The electroscope make is "Electroscope" Model "301" and is an "Electro Positive Frequency Induction Locator".

The metal detector sends out electronic waves (in an elliptical shape) that sense mineral concentrations (when they exist), by receiving a varied "bounce back", caused by the existence of minerals. When this occurs the unit emits a squeeling sound.

The electroscope is carefully held erect at chest height by a swivel-type handle. It will swing to point to the existence of a mineral concentration.


The metal detector is slowly moved from left to right and right to left in a sweeping motion, while walking forward at about two (2) feet per second. The actual width of the sweep area is about Ten (10) feet wide.


The electroscope is carefully held as still as possible, pointing forward as one walks slowly forward in parallel lines about ten (10) feet apart.

In the use of both instruments no soil disturbance occurs.

The "Spot" instrument noted in the expenditure statement is for safety and is a satellite tracker which monitors my location, while working alone, and from which I can alert my family or call directly to 911 in case of a problem or serious injury, and in doing so, will send the coordinates of my location.

The above noted work was done by myself (Roy Bickell) during a number of day trips to the site. Travel was by quad or boat at various times in June, August and September, 2008 and June, July, September & October 2009.


.....
Roy A. Bickell


.....
February 6, 2010

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Grande Prairie, AB
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QUALIFICATIONS

- * Amateur fossil collector for 40 years
- * Past President - Grande Prairie Museum
- * Member - Geology and Archaeology Research Council
- * Member - Paliontology Society of the Peace
- * Knowledgeable in the operation of a wand-type hand-held metal detector and G.P.S.
- * Have found lost metallic items

RESULTS

- * To date absolutely nothing has been found within the permit area.

CONCLUSION

- * Plan to continue exploring the remainder of the permit area with the metal detector and electroscope as time and weather permit, during the summer months.
- * I am not requesting any cancellation of amendments.

PART "B"

BREAKDOWN STATEMENT

PROSPECTING	\$8,930.00
<i>Administration @10%</i>	893.00
TOTAL	\$9,823.00

In 2008 this work was done during June 9th, August 15th & 22nd, September 11th & 18th, & August 1st, 15th, 22nd & 29th, as weather and time allowed.

In 2009, June 15th & 17th, July 21st, August 22nd, September 7th & 30th and October 6th, 13th 14th & 20th.

PROJECT NAME

SMOKY RIVER PROJECT No. 9306020474

MAY 27 2010

ALBERTA ENERGY
MINERAL DEVELOPMENT
9945 - 108 ST.
EDMONTON AB T5K 2G6

Box 1059
GRANDE PRAIRIE
AB T8V 4B5
MAY 24, 2010

DEAR SIRS

RE: METALLIC & INDUSTRIAL MINERAL PERMIT NO. 930602 0471 &
ASSESSMENT REPORT NO. 2010 0005 - SINGER RIVER

I AM WRITING IN REPLY TO YOUR LETTER OF
APRIL 12, 2010, IN WHICH YOU HAVE ASKED THREE
QUESTIONS.


#1. WHITES ELECTRONICS MODEL PRL-1 WITH UCL 450 LOOP.
WRITTEN EVIDENCE FROM THE MANUFACTURER
IS ATTACHED. PLEASE NOTE THAT I AM LOOKING
FOR GOLD NUGGETS, WHICH THIS MACHINE IS
VERY SENSITIVE TO.

#2. ELECTROSCOPE MODEL 301 - WRITTEN EVIDENCE
FROM THE MANUFACTURER IS ATTACHED. THIS UNIT
ALSO RESPONDS TO GOLD NUGGETS AND I HAVE
TESTED IT AND IT IS RELIABLE.

I HAVE ALSO ENCLOSED MY OWN EXPLANATION OF THE WORKING OF A METAL DETECTOR AND A ELECTROSCOPE - AS WELL AS A PARTIAL LISTING OF METAL DETECTOR APPLICATIONS IN ORDER TO INDICATE THE VARIETY OF APPLICATION OF THIS TECHNOLOGY.

I TRUST THAT THIS SUPPLEMENTARY INFORMATION PROVIDES THE ANSWERS TO YOUR QUESTIONS. IF ADDITIONAL INFORMATION IS REQUIRED PLEASE LET ME KNOW.

SINCERELY



ROY BICKELL

2010 MAY 27 A 8:18

ENERGY SRD
ENVIRONMENT
MAILROOM 2

White's Metal Detectors

FOR WH
Am
Metal Detector

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PRL-1 Metal Detector

On-the-job
Simplicity

Property Stake
Finder

The time saving tool for the job site. Construction and maintenance work is hectic enough without having to drop everything and dig to find some buried metal pin or valve or pipe hiding in the dirt. Just grab the PRL-1 and listen for the beep.

TWO YEAR WARRANTY
The White's Electronics manufacturers warranty covers all metal detector parts and labor for two years from the original purchase date.

To read the complete warranty statement [Click Here.](#)

[Download the Manual](#)

[Features Comparison Chart](#)



The PRL-1 is an industrial metal detector that finds property stake pins, valves, sprinkler heads, shallow pipes and cables. It is a very simple metal detector to use, and can be adjusted to detect either all metals or discriminate out junk. Waterproof search coil.

P/N 800-0305

USD \$399.95

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FEATURES

Built-in Automatic Ground Exclusion

"AA" Batteries and Holder for up to 80 hrs. of battery life.

1/4" headphone jack



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<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> View Some of Our	<input type="checkbox"/>	<input type="checkbox"/> A proud part

Buying Tips « Gravitator » **Model 301** » Model 20 » Mini Scope

The Model 301 Electroscope®



- Gold/Silver Switch
- Multiple Tuning Combinations
- Hi/Low Sensitivity Switch
- 9 Volt Alkaline Battery
- 10 Position Tuning
- 10 Position Discrimination Knob
- Meter used for tuning
- Low Battery Indicator

Since 1986 the **Model 301** has been used successfully by prospectors, cache hunters, nugget shooters and coin hunters. In the hands of a skilled operator who takes the time to learn and understand its operation, the **Model 301** has been called a "lethal weapon in the field". Boasting separate gold and silver modes, the **Model 301** has a maximum range of two miles plus on larger targets and reported find depths of up to twelve feet. By locating items from a distance, the **Model 301** reduces the time spent in the field searching considerably and the finds being accounted for has significantly increased as well.

THE WORKING OF A ELECTROSCOPE

AN ELECTROSCOPE IS AN ELECTRONIC, DIRECTIONAL METAL LOCATOR. THE UNIT IS MOUNTED ON A HAND HELD HANDLE, THAT PERMITS THE UNIT TO EFFORTLESSLY PIVOT HORIZONTALLY TO THE LEFT OR RIGHT WHENEVER IT DETECTS THE PRESENCE OF METALLIC MATERIAL.

IT IS HEAD LEVEL, THUS THE SLIGHTEST PULL EFFECT OF METAL CAUSES THE SWINGING MOTION - SIMILAR TO A DOWNSWING ROD WHICH PULLS IN A DOWNWARD MOTION. HOWEVER THE ELECTROSCOPE IS FAR MORE SENSITIVE AND THE SLIGHTEST PULL CREATES THE RIGHT OR LEFT MOVEMENT.

WHEN THE ELECTROSCOPE INDICATES THE PRESENCE OF METAL, CAUSED BY AN INTERRUPTION OF ITS ELECTRONIC FIELD, THUS TRIGGERING THE PIVOTING MOTION - THE OPERATOR CHECKS AND RECHECKS THAT THE UNIT IS RESPONDING CORRECTLY AND NOT REACTING TO OFF-LEVEL OPERATION OF THE UNIT. ONCE THIS IS ASCERTAINED, A HAND HELD METAL DETECTOR IS UTILIZED TO PIN POINT THE METAL LOCATION.

A LARGE AREA CAN BE COVERED MUCH FASTER AS OUTLINED ABOVE RATHER THAN USING ONLY THE METAL DETECTOR.

THE WORKINGS OF A METAL DETECTOR

A METAL DETECTOR CONTAINS A BATTERY WHICH POWERS THE ELECTRONIC OSCILLATOR. THE CURRENT FROM THE OSCILLATOR TRAVELS THROUGH A WIRE TO THE SEARCH COIL'S TRANSMITTER WINDING. (ANTENNA). THE TRANSMITTER ANTENNA CONSISTS OF A FEW TURNS OF ELECTRICAL WIRE, WOUND IN A CIRCULAR FASHION.

AS THE CURRENT CIRCULATES IN THE ANTENNA, AN INVISIBLE ELECTROMAGNETIC FIELD IS GENERATED THAT FLOWS OUT INTO THE AIR AND OTHER SURROUNDING MEDIUM SUCH AS WOOD, ROCK, EARTH MATERIALS, WATER ETC, IN ALL DIRECTIONS.

ANY SUBSTANCE PENETRATED BY THE ELECTROMAGNETIC FIELD IS "ILLUMINATED". A DETECTOR'S RESPONSE AT ANY GIVEN MOMENT IS CAUSED BY ~~CERTAIN~~ METALS AND MINERALS ILLUMINATED BY ITS ELECTROMAGNETIC FIELD.

THE END RESULT IS THAT ANY INTERRUPTION OF THE ELECTRONIC FIELD RESULTS IN AN AUDIBLE RESPONSE FROM THE DETECTOR.

METAL DETECTOR APPLICATIONS

- LUMBER MILLS - TO DETECT NAILS, SPIKES, WIRE ETC. IN SAW LOGS
- CHIPPING PLANTS " " METAL THAT WOULD DAMAGE KNIVES
- LOOKING FOR GOLD & SILVER NUGGETS
- LOCATING MINERAL ORE
- GRADING CONDUCTIVE METAL
- TRACING ELECTRICAL WIRE & CONDUIT IN BUILDINGS & UNDERGROUND
- LOCATING PIPELINES
- DETECTING FOREIGN OR 'TRAMP' BODIES IN FOOD PROCESSING
- LOCATING STUDBY LOCATING NAILS IN STUDBY
- DETECTING SPIKES, NAILS ETC IN TIRES PRIOR TO RECAPPING
- LOCATING STAPLES, NAILS ETC IN PROCESSING PAPER
- COUNTING CANS IN FOOD PROCESSING PLANTS
- DETECTING ILLEGAL REMOVAL OF BOOKS FROM LIBRARIES
- LOCATING STEEL REINFORCEMENT IN CONCRETE
- DETECTING METAL IN COAL BURNER INFEDS
- LOCATING WEAPONS CONCEALED ON OR INSIDE PERSONS
- LOCATING GUNS, KNIVES ETC RELATIVE TO CRIME
- DETECTING BULLETS AND METAL ARROW POINTS - WILDLIFE OFFICERS
- LOCATING ALL METAL OBJECTS AT AIRCRAFT & OTHER CRASH SITES.
- DETECTING I.D. TAGS IMPLANTED BY FISH & WILDLIFE OFFICERS
- LOCATING & TRACING SWALLOWED METAL PARTS
- LOCATING LAND MINES & BOOBY TRAPS
- LOCATING UNDER WATER ITEMS
- LOCATING ARCHAEOLOGICAL SITES
- LOCATING SURVEY STAKES
- LOCATING METAL UNDER SNOW
- AIRPORT SECURITY
- FINDING COINS, RINGS, JEWELRY & CACHES
- DETECTING SHOP LIFTERS