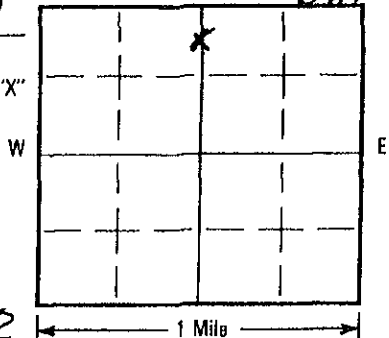


# SOUTH DAKOTA WATER WELL COMPLETION REPORT

07-92

Location NE 1/4 NW 1/4 Sec 18 Twp 1-N Rg 7-E  
County hot 4 - Lot 2 Bika North BHM  
Pennington

Please mark well location with an "X"



Well Completion Date

7-02-2000

### LOCATION:

Distance from nearest potential pollution source (septic tank, abandoned well, feed lot, etc.)? 150 ft. from Septic (identify source).

### PROPOSED USE:

- Domestic/Stock
- Municipal
- Business
- Test Holes
- Irrigation
- Industrial
- Institutional
- Monitoring well

### METHOD OF DRILLING:

Rotary Air-Water

CASING DATA:  Steel  Plastic  Other

If other describe \_\_\_\_\_

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
<u>200</u> LB/FT	<u>5</u> IN	<u>0</u> FT	<u>390</u> FT	<u>7 7/8</u> IN
_____ LB/FT	_____ IN	_____ FT	_____ FT	_____ IN
_____ LB/FT	_____ IN	_____ FT	_____ FT	_____ IN

### GROUTING DATA

Grout Type	No. of Sacks	Grout Weight	From	To
<u>Perthard</u>	<u>75</u>	<u>946</u> lb./gal	<u>0</u> ft	<u>390</u> ft
<u>Type I II</u>		_____ lb./gal	_____ ft	_____ ft

Describe grouting procedure Pressure grout thru casing with mud pump - displace w. fresh water

SCREEN:  Perforated pipe  Manufactured

Diameter \_\_\_\_\_ IN Length \_\_\_\_\_ FEET

Material \_\_\_\_\_

Slot Size \_\_\_\_\_ Set From \_\_\_\_\_ Feet to \_\_\_\_\_ Feet

Other information \_\_\_\_\_

WAS A PACKER OR SEAL USED?  YES  NO

If so, what material? \_\_\_\_\_

Describe packer(s) and location? \_\_\_\_\_

DISINFECTION: Was well disinfected upon completion?

YES, How: explosive pellets

NO, Why Not? \_\_\_\_\_

Laboratory sent to for water quality analysis

Mid Continent Lab.

Well Owner: P. PAUL KNAPP  
 Business Name: Andrew Le GARE  
 Address: 1-3909 Dorah Drive - Rapid City  
2-1116 South St. Rapid City 57701

### WELL LOG:

FORMATION	DEPTH	
	FROM	TO
<u>SAND, ROCK + GRAVEL</u>	<u>0'</u>	<u>60'</u>
<u>Yellow-Red Sandstone</u>	<u>60'</u>	<u>160'</u>
<u>Blind - Hard Drilling</u>	<u>160'</u>	<u>400'</u>
<u>Yellow Sandstone</u> <u>(MUNNEUSA)</u>	<u>400'</u>	<u>440'</u>
<u>Limestone + Red sand</u>	<u>440'</u>	<u>480'</u>
<u>Purple-green white L. sand</u> <u>(MADISON)</u>	<u>480'</u>	<u>540'</u>

STATIC WATER LEVEL 185' Feet

If flowing: closed in pressure \_\_\_\_\_ PSI

GPM flow \_\_\_\_\_ through \_\_\_\_\_ inch pipe

Controlled by  Valve  Reducers  Other \_\_\_\_\_

Reduced Flowrate \_\_\_\_\_ GPM

Can well be completely shut in? \_\_\_\_\_

### WELL TEST DATA:

Pumped Describe: Air Developed

Bailed \_\_\_\_\_

Other \_\_\_\_\_

Pumping Level Below Land Surface

540 ft. After 1 Hrs. Blow 30+ GPM

380 ft. After 2 Hrs. Blow 25 GPM

If pump installed, pump rate 16 GPM

### REMARKS

240' Cavity Fractured  
NO Return  
(Hard Drilling)

This well was drilled under license # 568

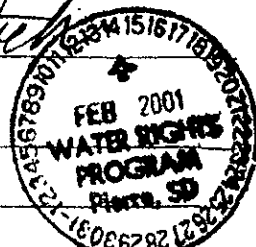
And this report is true and accurate.

Drilling firm CIMARRON Drilling Inc.

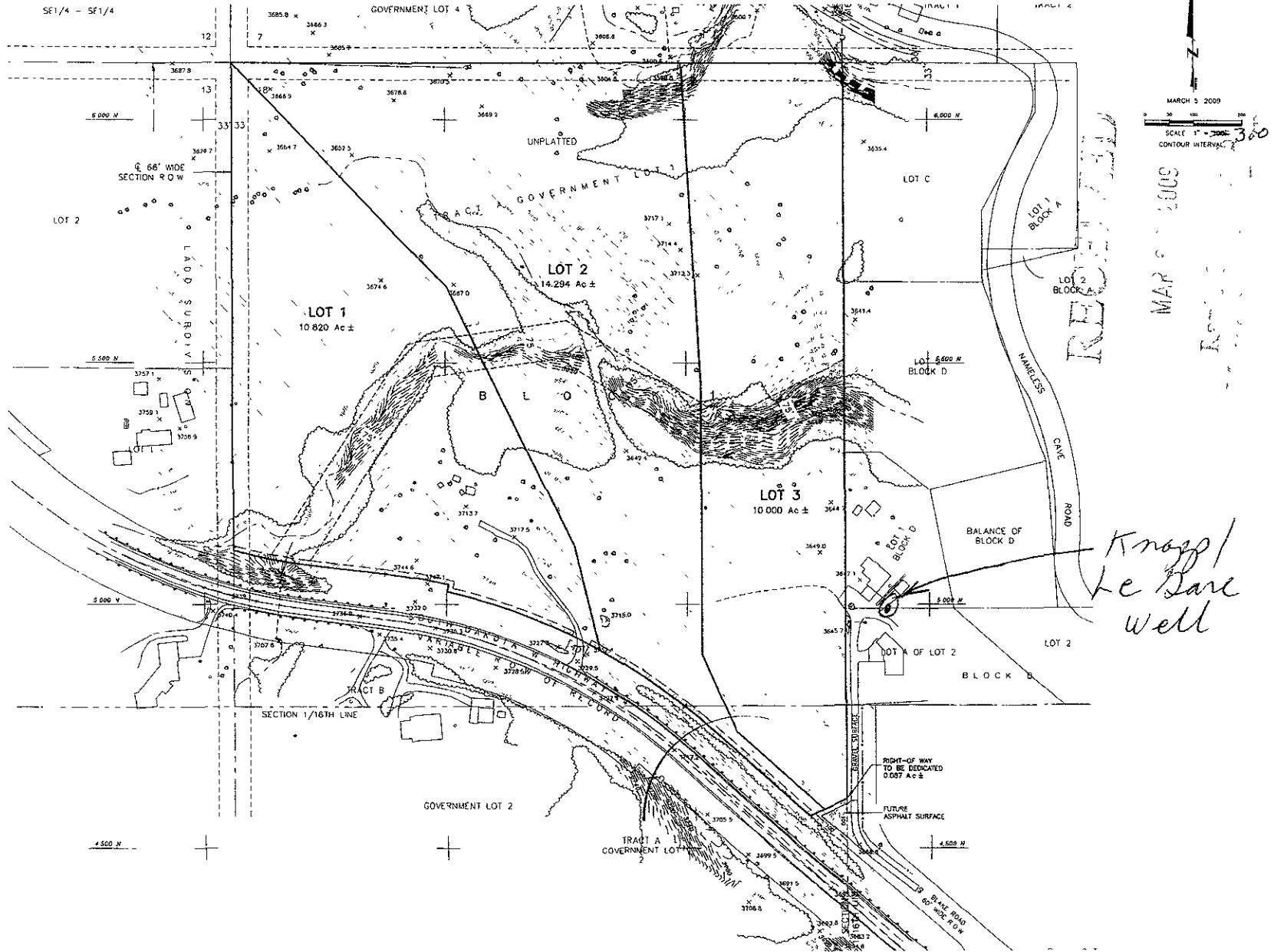
Signature of License Representative: Michael J. Deuter


Signature of Well Owner or Suitable Property Holder \_\_\_\_\_

Date: MAR 5 2001



2-14-01



Prepared By  Remer Associates, LLC 435 South W. 4th Ave., 2nd Floor, 48077-3700 Phone: 802/721-2333 • Fax: 802/721-2333 • E-Mail: info@remer-llc.com Website: www.remer-llc.com	Scale: 1" = 300' Contour Interval: 3'
	Date: 2007 02 Drawn By: PPM Plot Date: 3/5/2009 Technical Table: 2007 02 Surveyed By: Survey Date
BLAKE ESTATES, LOTS 1-3 LOCATED IN THE W1/2 OF THE NW1/4 OF SECTION 18, T1N, R7E, B1M PENNINGTON COUNTY, SOUTH DAKOTA	
Sheet Title: 2007 02 DEYANLED TOPOGRAPHIC MAP	Sheet: 1 of 1