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FEB 09 2015
SOUTH DAKOTA PUBLIC
UTILITIES COMMISSION

Dear PUC Commissioners,

Regarding the Dakota Access pipeline -

I tried to voice my concerns at the Redfield meeting and would like to explain them a little bit better. I have included the well driller's logs from the NE ¼ 20-115-63 and SE ¼ 20-115-63 just to show that the distance to water bearing sand is pretty consistent. I would feel much better knowing there is 8-12 feet of clay between the pipeline and my aquifer. I have included a drawing illustrating this.

My dad and I started irrigating in 1975 so this will be my 40th year. My son is farming with me and is going to take over. I want him to have the same opportunities that I had.

With 13000+ gallons/minute and 1000+ psi, a small crack on the bottom of the pipe could penetrate my aquifer in no time. No one would know it. Protecting our natural resources should be a top priority. I too help the United States by selling all my corn to the Redfield Energy plant for ethanol production. I do not get to take a straight road to the ethanol plant.

I know that the chances for a leak are slim, but I have farmed since 1973 and have found that erring to the "safe side" is a good policy. So the bottom line is I would like the pipeline to pass on the edge of my fields. This would locate it 1000 feet or better from my irrigation wells and hopefully never see oil coming out of my sprinkler nozzles.

Thank you. If any questions, [REDACTED]

James Frankenstein



HURON DRILLING INC. DRILLERS LOG

PAGE NO.

Willis Frankenstein
JOB NAME

N.E.20-115-63 Spink Co.
LOCATION

10-5-75
DATE

7
RIG NO.

Karl Osberg
FOREMAN

| Jt No. | DEPTH | TIME | Test Hole # 5 | REMARKS | DESCRIPTION | |
|--------|-------|------|---------------------------------------|---------|-------------------------------|----|
| 1 | 20 | | 0-11 Yellow Clay | | | |
| 2 | 40 | | 11-12 Blue Clay | | N.E.20-115-63 Spink County | |
| 3 | 60 | | 12-48 Good Sand | | | |
| 4 | 70 | | 48-60 Sand (Good) with Some Blue Clay | | | °5 |
| | | | 60-70 Shale | | | |
| | | | Cased up @ 60' with | | | |
| | | | 40' Slotted | | | |
| | | | 20' Blank | | | |
| | | | 2000# Concrete Sand | | | |
| | | | Pumped 20 GPM | | | |

Frankenstein
JOB NAME

S.E. 20-115-63 Spink Co.
LOCATION

4-12-75
DATE

Rig # 7
RIG NO.

Terry Bawdon
FOREMAN

| DEPTH | TIME | Test Hole # 1 | REMARKS | DESCRIPTION | |
|-------|------|---|------------------|-------------------------------|----------------|
| 20 | | 0-10 Yellow Clay | | S.E.20-115-63 Spink County | |
| 40 | | 10-15 Yellow Clay - Sand | | | |
| 60 | | 15-20 Sand Good | | | |
| 80 | | 20-40 Sand Good | 40 ft. Slotted | | |
| 100 | | 40-60 Sand Good | 40 ft. Blank | | |
| | | 60-80 Sand Good | Pumped 55 g.p.m. | | |
| | | 80-90 Sand Good | 2,000# concrete | | |
| | | 90-100 Sand & Shale | Slow sand. | | °2 °3 °1 °4 |
| | | Cased up # 1 | | | |
| | | Test Hole # 2 | | | |
| 20 | | 0-15 Yellow Clay | | | |
| 40 | | 15-20 Sand - Fair with some Yellow Clay | | | |
| 60 | | 20-40 Good Sand | Loss of water | | |
| 80 | | 40-60 Sand & Blue Clay | | | |
| | | 60-80 Blue Clay Sand Streaks | | | |
| | | Test Hole # 3 | | | |
| 20 | | 0-15 Yellow Clay | | | |
| 40 | | 15-20 Fair Sand Little Yellow Clay | | | |
| 60 | | 20-40 Good Sand | | | |
| 80 | | 40-55 Good Sand | | | |
| | | 55-60 Course Sand gravel Blue Clay | | | |
| | | 60-80 Blue Clay Some Sand | | | |
| | | Test Hole # 4 | | | |
| 20 | | 0-15 Yellow Clay | | | |
| 40 | | 15-20 Sand with Yellow Clay | | | |
| 60 | | 20-40 Good Sand | | | |
| | | 40-55 Good Sand | | | |
| | | 55-60 Blue Clay Mixed Sand | | | |

ground level

4 to 5 feet clay

30" pipeline

12 feet of clay

4 to 5 feet
clay between
pipeline and
water bearing
sand.

48 feet of water
bearing sand