

Well PID: 197860

| Location: | SW14-10-7E |
|-----------------|--|
| UTMX:676554.3 | UTMY:5522496.6 XY Accuracy:1 EXACT [<5M] [GPS] |
| UTMZ:266 | Z Accuracy:4 FAIR - Shuttle at Centroid |
| Owner: | CANWHITE SANDS LTD. / HD MINERALS |
| Driller: | Friesen Drillers Ltd. |
| Well Name: | BH 10-17 |
| Date Completed: | 2018 May 15 |
| Well Use: | OBSERVATION |
| WATER USE: | Other |
| Well Status: | ACTIVE Aquifer: LIMESTONE AND SANDSTONE |

REMARKS:

WITN:000606; #2650, 645 - 7TH AVENUE SW, CALGARY AB, T2P 4G8. AIR LIFTING. WELL COMPLETED OPEN HOLE UP TO 179 FEET. SANDSTONE BOREHOLE WOULD NOT STAY OPEN. MOC:DROT,OTHR:RC.

| WELL LOG (Imperial units) | | | | | |
|---------------------------|---|--|--|--|--|
| From To(ft.) | Log | | | | |
| 0.0 15 | BROWN TILL | | | | |
| 15.0 23 | GREY TILL | | | | |
| 23.0 40 | GREY TILL | | | | |
| 40.0 55 | GREY SAND & GRAVEL | | | | |
| 55.0 97 | GREY SANDY TILL | | | | |
| 97.0 112 | GREY TILL | | | | |
| 112.0 177 | BROWN LIMESTONE | | | | |
| 177.0 190 | PURPLE / PINK SHALE | | | | |
| 190.0 263 | WHITE SANDSTONE WITH SHALE LAYERS AT 255 FEET | | | | |
| 263.0 335 | MULTI COLOURED SHALE | | | | |

WELL CONSTRUCTION

Inside Outside Slot

| From | To(ft) | Const.Method | Dia.(in) | Dia.(in) | Size(in) | Туре | Material |
|--------|---------|--------------|------------|----------|----------|--------|----------|
| 0.0 | 115.0 | CASING | 8.0 | 8.6 | | WELDED | STEEL |
| 115.0 | 179.0 | OPEN HOLE | | 7.0 | | | |
| Top of | Casing: | 2.0 ft abo | ove ground | đ | | | |



Well PID: 197858

| Location: | NE15-10-7E |
|-----------------|--|
| UTMX:676346.3 | UTMY:5523705 XY Accuracy:1 EXACT [<5M] [GPS] |
| UTMZ:263 | Z Accuracy:4 FAIR - Shuttle at Centroid |
| Owner: | CANWHITE SANDS LTD. / HD MINERALS |
| Driller: | Friesen Drillers Ltd. |
| Well Name: | BH 14-17 |
| Date Completed: | 2018 Jun 07 |
| Well Use: | MONITORING |
| WATER USE: | Other |
| Well Status: | ACTIVE Aquifer: LIMESTONE OR DOLOMITE |

REMARKS:

WITN:000605; #2650, 645 - 7TH AVENUE SW, CALGARY AB, T2P 4G8. FOR MONITORING AND MINERAL EXPLORATION, NO PUMPING TEST. AIR LIFTING. MOC:DROT,OTHR:RC.

| WELL L | WELL LOG (Imperial units) | | | | |
|--------|---------------------------|---|--|--|--|
| From | To(ft.) | Log | | | |
| 0.0 | 15 | BROWN TILL | | | |
| 15.0 | 87 | GREY TILL | | | |
| 87.0 | 101 | GREY SAND & GRAVEL | | | |
| 101.0 | 158 | BROWN LIMESTONE WITH SHALE LAYERS AT 150 FEET - 158 | | | |
| | | FEET | | | |
| 158.0 | 173 | PINK / PURPLE SHALE | | | |

WELL CONSTRUCTION

Inside Outside Slot

| From | To(ft) | Const.Method | Dia.(in) | Dia.(in) | Size(in) | Туре | Material |
|--------|---------|--------------|------------|----------|----------|--------|----------|
| 0.0 | 103.0 | CASING | 8.0 | 8.6 | | WELDED | STEEL |
| 103.0 | 173.0 | OPEN HOLE | 7.0 | | | | |
| Top of | Casing: | 2.0 ft abo | ove ground | 1 | | | |



Well PID: 199966

| Location: | SW15-7-8E |
|-----------------|--|
| UTMX:686352.2 | UTMY:5493625.7 XY Accuracy:1 EXACT [<5M] [GPS] |
| UTMZ:243 | Z Accuracy:4 FAIR - Shuttle at Centroid |
| Owner: | CANWHITE SANDS LTD. / HD MINERALS |
| Driller: | Friesen Drillers Ltd. |
| Well Name: | DEN 243-1/BH 15-18/DEN GRP 12 |
| Date Completed: | 2018 Oct 03 |
| Well Use: | TEST WELL |
| WATER USE: | Other |
| Well Status: | SEALED Aquifer: LIMESTONE AND SANDSTONE |

REMARKS:

WITN:002454; #2650, 645 - 7TH AVENUE SW, CALGARY MB, T2P 4G8. TEST WELL: MINERAL EXPLORATION / SAMPLING. WELL WAS SEALED AFTER SAMPLING USING ALTERNATING LAYERS OF BENTONITE HOLE PLUG AND WASHED GRAVEL. WELL CASING WAS PULLED OUT. MOC:OTHR:RC.

| WELL L | IELL LOG (Imperial units) | | | | | |
|--------|---------------------------|--|--|--|--|--|
| From | To(ft.) | Log | | | | |
| 0.0 | 6 | BROWN SAND | | | | |
| 6.0 | 115 | GREY TILL | | | | |
| 115.0 | 164 | GREY TILL WITH SOME SAND LAYERS | | | | |
| 164.0 | 190 | PURPLE LIMESTONE | | | | |
| 190.0 | 195 | RED SHALE | | | | |
| 195.0 | 256 | WHITE SANDSTONE | | | | |
| 256.0 | 270 | WHITE, GREEN SANDSTONE WITH SHALE LAYERS | | | | |
| 270.0 | 275 | GREEN SHALE | | | | |

| | | | Inside | Outside | Slot | | |
|--------|---------|--------------|------------|----------|----------|--------|----------|
| From | To(ft) | Const.Method | Dia.(in) | Dia.(in) | Size(in) | Туре | Material |
| 0.0 | 156.0 | CASING | 8.0 | 8.6 | | WELDED | STEEL |
| 156.0 | 275.0 | OPEN HOLE | | 6.0 | | | |
| Top of | Casing: | 0.0 ft abo | ove ground | d | | | |

| WELL S | SEALED |
|--------|--------|
|--------|--------|

| Sealed | Date: | 2018-Oct-03 | 3 |
|--------|--------|-------------|------------|
| Sealed | By: | FRIESEN DRI | ILLERS LTD |
| Sealed | Type: | CONTRACTOR | - DRILLER |
| | | Outside | Sealed |
| From | To(ft) | Dia.(in) | Material |
| 0.0 | 75.0 | | BENTONITE |
| 75.0 | 100.0 | | PEA GRAVEL |
| | | | |

BENTONITE PEA GRAVEL BENTONITE



| 100.0 | 190.0 |
|-------|-------|
| 190.0 | 215.0 |
| 215.0 | 275.0 |

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Well PID: 203690

| Location: | SW33-7-8E | | | |
|-----------------|--------------------------|------------|-------|---------|
| UTMX:684491.6 | UTMY:5497731.1 XY Accura | cy:1 EXACT | [<5M] | [GPS] |
| Owner: | CANWHITE / HD MINERALS | | | |
| Driller: | Friesen Drillers Ltd. | | | |
| Well Name: | DEN 304 | | | |
| Date Completed: | 2020 Jul 28 | | | |
| Well Use: | MONITORING | | | |
| WATER USE: | DOMESTIC | | | |
| Well Status: | ACTIVE | Aquifer: | SAL | NDSTONE |
| | | | | |

REMARKS:

WITN:004278; WELL MUST BE VENTED. NO ER#.MOC:DROT;

| WELL L | OG (Im | perial units) |
|--------|---------|----------------------|
| From | To(ft.) | Log |
| 0.0 | 4 | SAND AND GRAVEL |
| 4.0 | 7 | WHITE TILL |
| 7.0 | 10 | BROWN TILL |
| 10.0 | 85 | GREY TILL |
| 85.0 | 125 | GREY CLAY |
| 125.0 | 134 | PURPLE COARSE GRAVEL |
| 134.0 | 185 | LIMESTONE |
| 185.0 | 190 | RED SHALE |
| 190.0 | 218 | SANDSTONE |
| | | |

WELL CONSTRUCTION

| | | | Inside | Outside | Slot | | |
|--------|---------|--------------|------------|----------|----------|--------|------------|
| From | To(ft) | Const.Method | Dia.(in) | Dia.(in) | Size(in) | Туре | Material |
| 0.0 | 136.0 | BOREHOLE | | 7.6 | | | |
| 0.0 | 136.0 | CASING | 5.0 | 5.5 | | INSERT | PVC |
| 136.0 | 218.0 | OPEN HOLE | | 4.8 | | | |
| 130.0 | 190.0 | LINER | 2.0 | 2.5 | | INSERT | PVC |
| 190.0 | 210.0 | WELL SCREEN | 2.0 | 2.5 | | INSERT | PVC |
| 0.0 | 136.0 | SURFACE SEAL | | | | | BENTONITE |
| 130.0 | 130.0 | ATTACHMENT | | | | | K PACKER |
| 185.0 | 185.0 | ATTACHMENT | | | | | SHALE TRAP |
| 190.0 | 190.0 | ATTACHMENT | | | | | SHALE TRAP |
| Top of | Casing: | 2.0 ft abo | ove ground | ł | | | |

PUMPING TESTDate : 2020 Jul 28Pumping 50.0 Imp. gallons/minuteWater level before test: 15.0 ft below groundWater level at end of test : 60.0 ft below ground

Page 1 of 2

2020 Oct 01

WELL INFORMATION REPORT

Manitoba

Test duration: 01:00:00 Test Zone: from 190.0 ft to 210.0 ft



Well PID: 203674

| Location: | NW29-8-8E | | |
|-----------------|-----------------------|-------------------|---------------------|
| UTMX:682472.5 | UTMY:5507475 XY Acc | curacy:1 EXACT [- | <5M] [GPS] |
| UTMZ:282 | Z Ace | curacy:4 FAIR - S | Shuttle at Centroid |
| Owner: | CANWHITE/ HD MINERALS | S | |
| Driller: | Friesen Drillers Ltd | | |
| Well Name: | BRU-154-2 BH 07-20 | | |
| Date Completed: | 2020 Jul 20 | | |
| Well Use: | MONITORING | | |
| WATER USE: | DOMESTIC | | |
| Well Status: | ACTIVE | Aquifer: | SANDSTONE |

REMARKS:

WITN:003736; WELL MUST BE VENTED. NO ER#. MOC:DROT;

| WELL L | OG (Im | perial units) |
|--------|---------|-----------------------|
| From | To(ft.) | Log |
| 0.0 | 12 | BROWN SAND AND GRAVEL |
| 12.0 | 72 | GREY TILL |
| 72.0 | 86 | GREY SANDY TILL |
| 86.0 | 100 | GREY TILL |
| 100.0 | 124 | GREY SANDY TILL |
| 124.0 | 180 | PURPLE LIMESTONE |
| 180.0 | 188 | RED/GREEN SHALE |
| 188.0 | 217 | WHITE SANDSTONE |

WELL CONSTRUCTION

| | | | Inside | Outside | Slot | | |
|--------|---------|--------------|------------|----------|----------|--------|-----------|
| From | To(ft) | Const.Method | Dia.(in) | Dia.(in) | Size(in) | Туре | Material |
| 0.0 | 134.0 | BOREHOLE | | 7.6 | | | |
| 0.0 | 134.0 | CASING | 5.0 | 5.5 | | INSERT | PVC |
| 134.0 | 217.0 | OPEN HOLE | | 4.8 | | | |
| 119.0 | 188.0 | LINER | 2.0 | 2.5 | | INSERT | PVC |
| 188.0 | 208.0 | WELL SCREEN | 2.0 | 2.5 | | INSERT | PVC |
| 40.0 | 134.0 | ANNULAR FILL | | | | | CEMENT |
| 0.0 | 40.0 | SURFACE SEAL | | | | | BENTONITE |
| Top of | Casing: | 2.0 ft abo | ove ground | 1 | | | |

PUMPING TEST

Date : 2020 Jul 20 Pumping 50.0 Imp. gallons/minute Water level before test : 11.0 ft below ground Water level at end of test : 115.0 ft below ground Test duration: 01:00:00 Test Zone: from 134.0 ft to 217.0 ft





Well PID: 197923

| Location: | SW7-10-8E |
|-----------------|--|
| UTMX:679729.3 | UTMY:5521213.8 XY Accuracy:1 EXACT [<5M] [GPS] |
| UTMZ:275 | Z Accuracy:4 FAIR - Shuttle at Centroid |
| Owner: | CANWHITE SANDS LTD. / HD MINERALS |
| Driller: | Friesen Drillers Ltd. |
| Well Name: | BH2-17 |
| Date Completed: | 2018 May 11 |
| Well Use: | OTHER |
| WATER USE: | Other |
| Well Status: | SEALED Aquifer: LIMESTONE AND SANDSTONE |
| | |

REMARKS:

WITN:000565; #2650, 645 - 7TH AVENUE SW, CALGARY AB, T2P 4G8. AIR LIFTING. BOREHOLE CAVED IN FROM 185 TO 338 FT AFTER DRILLING. TO BE ABANDONED. MOC:DROT,OTHR:RC.

| WELL LOG (Im | WELL LOG (Imperial units) | | | |
|--------------|--|--|--|--|
| From To(ft.) | Log | | | |
| 0.0 16 | BROWN GRAVELY TILL | | | |
| 16.0 60 | BROWN GRAVEL, SOME COBBLES & SAND | | | |
| 60.0 71 | GREY TILL | | | |
| 71.0 100 | GREY GRAVELY, SOME SAND LAYERS | | | |
| 100.0 175 | PINK / PURPLE LIMESTONE | | | |
| 175.0 186 | RED / GREEN SHALE | | | |
| 186.0 261 | WHITE SANDSTONE, SHALE LAYERS AT 253 - 261 | | | |
| 261.0 332 | MULTI COLOURED SHALE | | | |
| 332.0 337 | WHITE SANDSTONE | | | |
| 337.0 338 | BLACK / WHITE GRANITE | | | |

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WELL CONSTRUCTION
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| | | | Inside | Outside | Slot | | |
|---------|---------|--------------|------------|-----------|-----------|------|----------|
| From | To(ft) | Const.Method | Dia.(in) | Dia.(in) | Size(in) | Туре | Material |
| 0.0 | 103.0 | CASING | 8.0 | 8.6 | | | STEEL |
| 103.0 | 185.0 | OPEN HOLE | 7.0 | | | | |
| 185.0 | 338.0 | OPEN HOLE | 5.0 | | | | |
| Top of | Casing: | 1.5 ft abo | ove ground | đ | | | |
| | | | | | | | |
| WELL SH | EALED | | | | | | |
| Sealed | Date: | 2018-May-17 | 7 | | | | |
| Sealed | By: | FRIESEN DRI | LLERS LTI | Ο. | | | |
| Sealed | Type: | CONTRACTOR | - DRILLER | R | | | |
| Sealer | Remarks | WELL CAVED | IN. CASIN | NG CUT OF | F AR 4 FT | BGS. | |
| | | Outside | Sealed | | | | |



| From | To(ft) | Dia.(in) | Material | |
|-------|--------|----------|------------|--|
| 175.0 | 185.0 | | BENTONITE | |
| 105.0 | 175.0 | | PEA GRAVEL | |
| 92.0 | 105.0 | | BENTONITE | |
| 13.0 | 92.0 | | PEA GRAVEL | |
| 0.0 | 13.0 | | CEMENT | |



Well PID: 197862

| 5 |
|---|
| 306.1 XY Accuracy:1 EXACT [<5M] [GPS] |
| Z Accuracy:4 FAIR - Shuttle at Centroid |
| SANDS LTD. / HD MINERALS LTD. |
| rillers Ltd. |
| |
| 19 |
| 3 |
| |
| Aquifer: LIMESTONE AND SANDSTONE |
| 2 |

REMARKS:

WITN:000601; #2650 - 645 7TH AVENUE S.W, CALGARY AB, T2P 4G8. AIR LIFTING. FOR MONITORING PURPOSES. NO PUMPING TEST DATA. MOC:DROT,OTHR:RC.

| WELL LO | OG (Im | perial units) |
|---------|---------|--|
| From | To(ft.) | Log |
| 0.0 | 20 | BROWN GRAVEL WITH SAND |
| 20.0 | 114 | BROWN COARSE SAND WITH SHALE LAYERS |
| 114.0 | 155 | PINKISH PURPLE LIMESTONE |
| 155.0 | 169 | PINKISH PURPLE LIMESTONE WITH SHALE LAYERS |
| 169.0 | 178 | RED & GREEN SHALE |
| 178.0 | 237 | WHITE SANDSTONE |
| 237.0 | 250 | WHITE & GREEN SANDSTONE AND SHALE LAYERS |
| 250.0 | 277 | GREEN SHALE |
| 277.0 | 281 | YELLOW & WHITE SANDSTONE |
| 281.0 | 300 | RED & GREEN SHALE |
| | | |

WELL CONSTRUCTION

| | | | Inside | Outside | Slot | | |
|--------|---------|--------------|------------|----------|----------|----------|------------|
| From | To(ft) | Const.Method | Dia.(in) | Dia.(in) | Size(in) | Туре | Material |
| 0.0 | 116.0 | CASING | 8.0 | 8.6 | | WELDED | STEEL |
| 116.0 | 141.0 | OPEN HOLE | | 7.0 | | | |
| 141.0 | 300.0 | OPEN HOLE | | 5.0 | | | |
| 0.0 | 220.0 | LINER | 2.0 | 2.5 | | INSERT | PVC |
| 168.0 | 178.0 | LINER | | 5.0 | | | SHALE TRAP |
| 0.0 | 116.0 | SURFACE SEAL | | | | HOLEPLUG | BENTONITE |
| 172.0 | 172.0 | ATTACHMENT | | | | | SHALE TRAP |
| 173.0 | 173.0 | ATTACHMENT | | | | | SHALE TRAP |
| 174.0 | 174.0 | ATTACHMENT | | | | | SHALE TRAP |
| Top of | Casing: | 2.0 ft abo | ove ground | 1 | | | |

WELL SEALED

2020 Oct 01

WELL INFORMATION REPORT



| Sealed | Date: | 2020-Jun-18 | В | | | | 1 | | ſ. |
|--------|---------|--------------|--------|---------|---------|-----------|----------|---------|----|
| Sealed | By: | FRIESEN DR | ILLERS | LTD. | | | | | |
| Sealed | Type: | CONTRACTOR | - DRII | LLER | | | | | |
| Sealer | Remarks | CASING CUT | OFF 2 | FT BGS. | 0-220FT | BENTONITE | HOLEPLUG | (INSIDE | 2 |
| | | INCH LINER). | | | | | | | |
| | | Outside | Sealed | 1 | | | | | |
| From | To(ft) | Dia.(in) | Mater | ial | | | | | |
| 0.0 | 40.0 | | BENTO | VITE | | | | | |
| 40.0 | 65.0 | | PEA GI | RAVEL | | | | | |
| 65.0 | 70.0 | | BENTO | VITE | | | | | |
| 70.0 | 85.0 | | PEA GI | RAVEL | | | | | |
| 85.0 | 90.0 | | BENTO | NITE | | | | | |
| 90.0 | 105.0 | | PEA GI | RAVEL | | | | | |
| 105.0 | 155.0 | | BENTON | NITE | | | | | |
| 0.0 | 220.0 | | BENTON | NITE | | | | | |
| | | | | | | | | | |



Well PID: 200818

| Location: | SW19-10-8E | | |
|-----------------|--------------------------|---------------|---------------------|
| UTMX:679908.3 | UTMY:5524068.7 XY Accura | cy:1 EXACT [« | <5M] [GPS] |
| UTMZ:277 | Z Accura | CY:4 FAIR - S | Shuttle at Centroid |
| Owner: | HD MINERALS/ CANWHITE SA | ANDS | |
| Driller: | Friesen Drillers Ltd. | | |
| Well Name: | SITE 1 82-9 | | |
| Date Completed: | 2019 May 01 | | |
| Well Use: | MONITORING | | |
| WATER USE: | COMM/INDUST | | |
| Well Status: | ACTIVE | Aquifer: | SANDSTONE |

REMARKS:

WITN:002534; 2650-645 7TH AVE SW, CALGARY AB, T2P 4G8. NESTED MONITORING WELL 5 INCH WELL COMPLETED IN CARBONATE (2534 CARBONATE). 2 INCH WELL COMPLETED IN SANDSTONE (2534 SANDSTONE). MOC:ROTM;

| WELL L | OG (In | perial units) |
|--------|---------|------------------|
| From | To(ft.) | Log |
| 0.0 | 1 | ORGANICS |
| 1.0 | 15 | BROWN TILL |
| 15.0 | 88 | GREY TILL |
| 88.0 | 170 | LIMESTONE |
| 170.0 | 176 | RED/ GREEN SHALE |
| 176.0 | 195 | WHITE SANDSTONE |

| | | | Inside | Outside | Slot | | |
|--------|---------|--------------|------------|----------|----------|----------|-----------|
| From | To(ft) | Const.Method | Dia.(in) | Dia.(in) | Size(in) | Туре | Material |
| 0.0 | 89.0 | BOREHOLE | | 7.9 | | | |
| 0.0 | 89.0 | CASING | 5.0 | 5.5 | | INSERT | PVC |
| 0.0 | 176.0 | CASING | 2.0 | 2.5 | | INSERT | PVC |
| 176.0 | 186.0 | WELL SCREEN | 2.0 | 2.5 | | INSERT | PVC |
| 176.0 | 176.0 | SHALE TRAP | SHALE TRAP | | | | |
| 170.0 | 176.0 | ANNULAR FILL | | | | | BENTONITE |
| 0.0 | 89.0 | SURFACE SEAL | | | | HOLEPLUG | BENTONITE |
| Top of | Casing: | 3.0 ft ab | ove groun | d | | | |



Well PID: 204171

| Location: | SW14-10-7E | | |
|-----------------|-----------------|------------------------|--------------------|
| UTMX:676636.6 | UTMY:5522358 | XY Accuracy:1 EXACT [< | 5M] [GPS] |
| UTMZ:266 | | Z Accuracy:4 FAIR - S | huttle at Centroid |
| Owner: | CANWHITE SANDS | LTD. / HD MINERALS LTD | |
| Driller: | Friesen Driller | rs Ltd. | |
| Well Name: | BH 10B-17 | | |
| Date Completed: | 2018 May 19 | | |
| Well Use: | MONITORING | | |
| WATER USE: | Other | | |
| Well Status: | ACTIVE | Aquifer: | SANDSTONE |

REMARKS:

WITN:000703; WELL ORIGINALLY CONSTRUCTED ON 2017-12-08, OLD PID 196242. FOR MONITORING PURPOSES, NO PUMPING TEST DATA, WATER USE:MINERAL EXPLORATION, 3 SHALE TRAP BETWEEN 182 TO 192 FT -NO DEPTHS PROVIDED INPUTTED THE 3 SHALE TRAPS IN MIDDLE OF THIS SECTION. MOC: ROTM.

WELL LOG (Imperial units) From To(ft.) Log 0.0 12 BROWN TILL 12.0 22 BROWN GRAVEL 22.0 122 GREY LIMESTONE 122.0 182 BROWN SHALE 182.0 192 RED & GREEN SHALE 192.0 238 WHITE SANDSTONE

| | | | Inside | Outside | Slot | | |
|--------|---------|--------------|------------|----------|----------|--------|------------|
| From | To(ft) | Const.Method | Dia.(in) | Dia.(in) | Size(in) | Туре | Material |
| 0.0 | 122.0 | BOREHOLE | | 7.9 | | | |
| 122.0 | 238.0 | BOREHOLE | | 5.0 | | | |
| 0.0 | 122.0 | CASING | 5.0 | 5.5 | | INSERT | PVC |
| 0.0 | 220.0 | LINER | 2.0 | 2.5 | | INSERT | PVC |
| 182.0 | 192.0 | LINER | | 5.0 | | | PVC |
| 0.0 | 122.0 | ANNULAR FILL | | | | | BENTONITE |
| 186.0 | 186.0 | ATTACHMENT | | | | | SHALE TRAP |
| 187.0 | 187.0 | ATTACHMENT | | | | | SHALE TRAP |
| 188.0 | 188.0 | ATTACHMENT | | | | | SHALE TRAP |
| Top of | Casing: | 2.0 ft ab | ove ground | d | | | |



Well PID: 204173

| Location: | SW19-10-8E |
|-----------------|--|
| UTMX:680025.3 | UTMY:5523969.1 XY Accuracy:1 EXACT [<5M] [GPS] |
| UTMZ:277 | Z Accuracy:4 FAIR - Shuttle at Centroid |
| Owner: | CANWHITE SANDS LTD / HD MINERALS |
| Driller: | Friesen Drillers Ltd. |
| Well Name: | BH 9B-17 |
| Date Completed: | 2018 Jun 06 |
| Well Use: | MONITORING |
| Well Status: | ACTIVE Aquifer: SANDSTONE |

REMARKS:

WITN:000702; WELL ORIGINALLY CONSTRUCTED ON 2017-12-07, OLD PID 196243. WELL FOR MONITORING AND EXPLORATION, NO PUMP TEST DATA, 3 SHALE TRAP BETWEEN 170 TO 180 FT - NO DEPTHS PROVIDED INPUTTED THE SHALE TRAPS IN MIDDLE OF THIS SECTION. MOC:ROTM.

| WELL | LOG (In | perial units) |
|-------|---------|-------------------|
| From | To(ft.) | Log |
| 0.0 | 18 | BROWN TILL |
| 18.0 | 84 | GREY TILL |
| 84.0 | 170 | BROWN LIMESTONE |
| 170.0 | 180 | RED & GREEN SHALE |
| 180.0 | 238 | WHITE SANDSTONE |

| | | Inside | Outside | Slot | | |
|-------------|-----------------|------------|----------|----------|--------|------------|
| From To(f | t) Const.Method | Dia.(in) | Dia.(in) | Size(in) | Туре | Material |
| 0.0 122. | 0 BOREHOLE | | 7.9 | | | |
| 0.0 122. | 0 CASING | 5.0 | 5.5 | | INSERT | PVC |
| 122.0 238. | 0 OPEN HOLE | | 4.8 | | | |
| 0.0 122. | 0 ANNULAR FILL | | | | | BENTONITE |
| 0.0 225. | 0 LINER | 2.0 | 2.5 | | INSERT | PVC |
| 174.0 174. | 0 ATTACHMENT | | | | | SHALE TRAP |
| 175.0 175. | 0 ATTACHMENT | | | | | SHALE TRAP |
| 176.0 176. | 0 ATTACHMENT | | | | | SHALE TRAP |
| Top of Casi | ng: 2.0 ft ab | ove ground | đ | | | |



Well PID: 203688

| Location: | SW19-10-8E | | | |
|-----------------|--------------------------|------------|-------|---------|
| UTMX:679808 | UTMY:5524033.1 XY Accura | cy:1 EXACT | [<5M] | [GPS] |
| Owner: | CANWHITE / HD MINERALS | | | |
| Driller: | Friesen Drillers Ltd. | | | |
| Well Name: | BRU 82-11 BH 17-19 | | | |
| Date Completed: | 2019 Aug 16 | | | |
| Well Use: | TEST WELL | | | |
| WATER USE: | COMM/INDUST, Other | | | |
| Well Status: | SEALED | Aquifer: | SAI | NDSTONE |

REMARKS:

WITN:003263; SEALING REMARKS: A CEMENT PLUG OF 12 FT WAS PLACE INSIDE THE CASING TO PERMANENTLY PREVENT VERTICAL MOVEMENT WITH A TREMIE LINE AS PER DRILLING REGULATION 1992 SPECIFICATION SECTION 7B. SEALING AT 173 FT-MECHANICAL PLUG MOC:DROT;

| WELL | LOG (Im | perial units) |
|-------|---------|------------------|
| From | To(ft.) | Log |
| 0.0 | 1 | ORGANICS |
| 1.0 | 19 | BROWN FILL |
| 19.0 | 89 | GREY TILL |
| 89.0 | 91 | LIMESTONE RUBBLE |
| 91.0 | 168 | LIMESTONE |
| 168.0 | 174 | SHALE |
| 174.0 | 178 | SANDSTONE |

| | | | Inside | Outside | Slot | | |
|--------|---------|--------------|------------|----------|----------|--------|----------|
| From | To(ft) | Const.Method | Dia.(in) | Dia.(in) | Size(in) | Туре | Material |
| 0.0 | 178.0 | CASING | 10.0 | 10.6 | | WELDED | STEEL |
| 0.0 | 92.0 | CASING | 16.0 | 16.6 | | WELDED | STEEL |
| 0.0 | 160.0 | BOREHOLE | | 15.6 | | | |
| 0.0 | 160.0 | SURFACE SEAL | | | | | CEMENT |
| Top of | Casing: | 3.0 ft abo | ove ground | d | | | |
| | | | | | | | |

| WELL SEALED | | |
|-----------------|-------------|--|
| Sealed Date: | 2020-Aug-2 | 1 |
| Sealed By: | CANWHITE S. | ANDS CORP |
| Sealed Type: | | |
| Sealer Remarks: | CASING CUT | OFF AT 3 FT BGS. SEE REMARKS FOR MORE SEALING REMARKS. |
| | Outside | Sealed |
| From To(ft) | Dia.(in) | Material |
| 0.0 4.0 | | CEMENT |



| 0.0 | 4.0 | GRAVEL |
|-------|-------|------------|
| 0.0 | 4.0 | BACKFILL |
| 4.0 | 9.0 | BENTONITE |
| 9.0 | 82.0 | PEA GRAVEL |
| 82.0 | 85.0 | BENTONITE |
| 85.0 | 151.0 | PEA GRAVEL |
| 151.0 | 156.0 | BENTONITE |
| 156.0 | 168.0 | CEMENT |
| 168.0 | 173.0 | BENTONITE |
| 173.0 | 173.0 | OTHER |
| | | |

1.5 mm



Well PID: 199982

| Location: | SW19-10-8E |
|-----------------|--|
| UTMX:679941.8 | UTMY:5524035.4 XY Accuracy:1 EXACT [<5M] [GPS] |
| UTMZ:277 | Z Accuracy:4 FAIR - Shuttle at Centroid |
| Owner: | CANWHITE SANDS LTD. / HD MINERALS |
| Driller: | Friesen Drillers Ltd. |
| Well Name: | BRU 82-5 / BH 6-18 |
| Date Completed: | 2018 Sep 28 |
| Well Use: | TEST WELL |
| WATER USE: | Other |
| Well Status: | SEALED Aquifer: SANDSTONE |

REMARKS:

WITN:002472; #2650, 645 - 7TH AVENUE SW, CALGARY AB, T2P 4G8. PRODUCTION AND OTHER: MINERAL EXPLORATION / SAMPLING. AIR LIFTING. PUMPING TEST AT HIGHER DISCHARGE RATES TO BE COMPLETED. MOC:DROT.

| WELL LO | OG (Imj | perial units) |
|---------|---------|------------------|
| From | To(ft.) | Log |
| 0.0 | 18 | BROWN TILL |
| 18.0 | 83 | GREY TILL |
| 83.0 | 167 | BROWN LIMESTONE |
| 167.0 | 177 | RED, GREEN SHALE |
| 177.0 | 244 | WHITE SANDSTONE |
| 244.0 | 250 | RED SHALE |

WELL CONSTRUCTION

| | | Inside | Outside | Slot | | |
|----------------|--------------|------------|----------|----------|----------|-----------|
| From To(ft) | Const.Method | Dia.(in) | Dia.(in) | Size(in) | Туре | Material |
| 0.0 85.0 | CASING | 23.5 | 24.0 | | WELDED | STEEL |
| 85.0 158.0 | OPEN HOLE | 23.0 | | | | |
| 0.0 180.0 | LINER | 19.5 | 20.0 | | WELDED | STEEL |
| 0.0 190.0 | LINER | 15.5 | 16.0 | | WELDED | STEEL |
| 190.0 250.0 | LINER | 15.5 | 16.0 | | WELDED | STEEL |
| 0.0 85.0 | SURFACE SEAL | 20.0 | 23.5 | | HOLEPLUG | BENTONITE |
| 0.0 170.0 | SURFACE SEAL | 16.0 | 19.5 | | HOLEPLUG | BENTONITE |
| Top of Casing: | 0.0 ft abo | ove ground | 1 | | | |

WELL SEALED

| Sealed | Date: | 2020-Ju | in-18 | 3 | | | | |
|--------|----------|---------|-------|------|------|-----|------------|------|
| Sealed | By: | FRIESEN | I DRI | LLE | RS I | TI |) . | |
| Sealed | Type: | CONTRAC | TOR | - DI | RILI | LEF | ર | |
| Sealer | Remarks: | CASING | CUT | OFF | AT | 2 | FT | BGS. |
| | | Outside | | Sea | led | | | |

| From | To(ft) | Dia.(in) | Material |
|-------|--------|----------|------------|
| 0.0 | 40.0 | | BENTONITE |
| 40.0 | 65.0 | | PEA GRAVEL |
| 65.0 | 70.0 | | BENTONITE |
| 70.0 | 85.0 | | PEA GRAVEL |
| 85.0 | 90.0 | | BENTONITE |
| 90.0 | 105.0 | 6 | PEA GRAVEL |
| 105.0 | 150.0 | | BENTONITE |
| 150.0 | 175.0 | | PEA GRAVEL |
| 175.0 | 190.0 | | BENTONITE |
| 190.0 | 230.0 | | PEA GRAVEL |
| 230.0 | 250.0 | | BENTONITE |
| | | | |

Manitoba



Well PID: 197859

| Location: | SW19-10-8E |
|-----------------|--|
| UTMX:679884.9 | UTMY:5524057.9 XY Accuracy:1 EXACT [<5M] [GPS] |
| UTMZ:277 | Z Accuracy:4 FAIR - Shuttle at Centroid |
| Owner: | CANWHITE SANDS LTD. / HD MINERALS |
| Driller: | Friesen Drillers Ltd. |
| Well Name: | BRU9 |
| Date Completed: | 2018 Jun 05 |
| Well Use: | OTHER |
| WATER USE: | Other |
| Well Status: | SEALED Aquifer: OTHER |

REMARKS:

WITN:000712; #2650 - 645 7TH AVENUE S.W., CALGARY AB, T2P 5G8. PUMP TEST DONE AFTER DRILLING TO 160 FT. MOC:DROT;

| WELL LO | OG (Im | perial units) |
|---------|---------|-----------------------------|
| From | To(ft.) | Log |
| 0.0 | 25 | BROWN TILL |
| 25.0 | 84 | GREY TILL |
| 84.0 | 166 | BROWN LIMESTONE |
| 166.0 | 171 | RED SHALE |
| 171.0 | 242 | WHITE SANDSTONE |
| 242.0 | 247 | WHITE HARD SANDSTONE LAYERS |
| 247.0 | 250 | GREEN SHALE |

WELL CONSTRUCTION

| | | | Inside | Outside | Slot | | |
|--------|---------|--------------|------------|----------|----------|--------|----------|
| From | To(ft) | Const.Method | Dia.(in) | Dia.(in) | Size(in) | Туре | Material |
| 0.0 | 87.0 | CASING | 12.0 | 12.5 | | WELDED | STEEL |
| 87.0 | 160.0 | OPEN HOLE | 12.0 | | | | |
| 0.0 | 187.0 | CASING | 8.0 | 8.6 | | WELDED | STEEL |
| 0.0 | 217.0 | LINER | 6.0 | 6.6 | | WELDED | STEEL |
| 217.0 | 238.0 | LINER | 6.0 | 6.6 | | WELDED | STEEL |
| 238.0 | 250.0 | OPEN HOLE | | 4.0 | | | |
| 165.0 | 170.0 | ANNULAR FILL | 6.6 | 8.0 | | | CEMENT |
| Top of | Casing: | 2.0 ft abo | ove ground | d | | | |

PUMPING TEST

Date : 2018 Jun 05 Pumping 360.0 Imp. gallons/minute Water level before test : 15.9 ft below ground Water level at end of test : 27.2 ft below ground Test duration: 1:00:00 Test Zone: from 87.0 ft to 250.0 ft

| Manitoba | 2 |
|-----------------|--------------|
| I MARKOU | TY 11 |

| WELL SH | EALED | | |
|---------|----------|------------|-----------------|
| Sealed | Date: | 2020-Jun-1 | 7 |
| Sealed | By: | FRIESEN DR | ILLERS LTD. |
| Sealed | Type: | CONTRACTOR | - DRILLER |
| Sealer | Remarks: | CASING CUT | OFF AT 2 FT BGS |
| | C | Outside | Sealed |
| From | To(ft) I |)ia.(in) | Material |
| 0.0 | 40.0 | | BENTONITE |
| 40.0 | 65.0 | | PEA GRAVEL |
| 60.0 | 70.0 | | BENTONITE |
| 70.0 | 85.0 | | PEA GRAVEL |
| 85.0 | 90.0 | | BENTONITE |
| 90.0 | 105.0 | | PEA GRAVEL |
| 105.0 | 150.0 | | BENTONITE |
| 150.0 | 175.0 | | PEA GRAVEL |
| 175.0 | 190.0 | | BENTONITE |
| 190.0 | 230.0 | | PEA GRAVEL |
| 230.0 | 250.0 | | BENTONITE |



Well PID: 197863

| Location: | SW19-10-8E |
|-----------------|--|
| UTMX:679884.9 | UTMY:5524057.9 XY Accuracy:1 EXACT [<5M] [GPS] |
| UTMZ:277 | Z Accuracy:4 FAIR - Shuttle at Centroid |
| Owner: | CANWHITE SANDS LTD. / HD MINERALS |
| Driller: | Friesen Drillers Ltd. |
| Well Name: | BH9-17 |
| Date Completed: | 2018 Jun 13 |
| Well Use: | OTHER |
| WATER USE: | Other |
| Well Status: | ACTIVE Aquifer: SANDSTONE |

REMARKS:

WITN:000564; #2650, 645 - 7TH AVENUE SW, CALGARY AB, T2P 4G8. FOR MINERAL EXPLORATION, AIR LIFTING, CONSTRUCTION REPORT INDICATED SHALE TRAPS BETWEEN 176-170FT MOC:DROT,OTHR:RC;

| WELL LOG (In | nperial units) |
|--------------|--|
| From To(ft.) | Log |
| 0.0 12 | BROWN TILL |
| 12.0 20 | BROWN SANDY TILL |
| 20.0 83 | GREY TILL |
| 83.0 164 | PINKISH PURPLE LIMESTONE |
| 164.0 250 | MULTI SHALE |
| 250.0 257 | MULTI SANDSTONE WITH SHALE LAYERS (252-257 FT) |
| 257.0 315 | WHITE SHALE |
| 315.0 325 | BLACK SANDSTONE |
| 325.0 326 | GRANITE |

| | | | Inside | Outside | Slot | | |
|--------|---------|--------------|------------|----------|----------|--------|------------|
| From | To(ft) | Const.Method | Dia.(in) | Dia.(in) | Size(in) | Туре | Material |
| 0.0 | 86.0 | CASING | 8.0 | 8.6 | | WELDED | STEEL |
| 86.0 | 170.0 | OPEN HOLE | | 7.0 | | | |
| 170.0 | 326.0 | OPEN HOLE | | 5.0 | | | |
| 0.0 | 176.0 | LINER | 4.0 | | | WELDED | STEEL |
| 160.0 | 170.0 | ANNULAR FILL | | | | | CEMENT |
| 80.0 | 160.0 | ANNULAR FILL | | | | | PEAGRAVEL |
| 0.0 | 80.0 | SURFACE SEAL | | | | | CEMENT |
| 173.0 | 173.0 | ATTACHMENT | | | | | SHALE TRAP |
| 174.0 | 174.0 | ATTACHMENT | | | | | SHALE TRAP |
| Top of | Casing: | 2.0 ft abo | ove ground | d | | | |



Well PID: 203678

| Location: | SW19-10-8E | | |
|-----------------|--------------------------|---------------|--------------------|
| UTMX:679843.9 | UTMY:5524056.6 XY Accura | cy:1 EXACT [< | 5M] [GPS] |
| UTMZ:277 | Z Accura | cy:4 FAIR - S | huttle at Centroid |
| Owner: | CANWHITE SANDS/ HD MINER | ALS | |
| Driller: | Friesen Drillers Ltd. | | |
| Well Name: | BRU 82-14 BH 17-19 | | |
| Date Completed: | 2019 Aug 26 | | |
| Well Use: | OTHER | | |
| WATER USE: | Other | | |
| Well Status: | SEALED | Aquifer: | SANDSTONE |
| | | | |

REMARKS:

WITN:003227; WELL USE & WATER USE:MINERAL EXPLORATION. SEALING REMARKS: A CEMENT PLUG OG 10 FT WAS PLACED INSIDE THE CASING TO PERMANENTLY PREVENT VERTICAL MOVEMENT WITH A TREMIE LINE AS PER DRILLING REGULATION 1992 SPECIFICATION SECTION 7B. MOC:ROTM DROT;

| WELL I | JOG (Im | perial units) |
|--------|---------|---------------------|
| From | To(ft.) | Log |
| 0.0 | 30 | BROWN TILL |
| 30.0 | 85 | GREY TILL |
| 85.0 | 162 | BROWN LIMESTONE |
| 162.0 | 169 | GREEN AND RED SHALE |
| 169.0 | 218 | WHITE SANDSTONE |

WELL CONSTRUCTION

| | | | Inside | Outside | Slot | | |
|--------|---------|--------------|------------|----------|----------|--------|----------|
| From | To(ft) | Const.Method | Dia.(in) | Dia.(in) | Size(in) | Туре | Material |
| 0.0 | 155.0 | BOREHOLE | 14.8 | | | | |
| 0.0 | 197.0 | CASING | 10.0 | 10.6 | | WELDED | STEEL |
| 0.0 | 155.0 | SURFACE SEAL | | | | | CEMENT |
| 0.0 | 155.0 | SURFACE SEAL | | | | | GRAVEL |
| 197.0 | 218.0 | OPEN HOLE | 8.8 | | | | |
| Top of | Casing: | 2.0 ft abo | ove ground | 1 | | | |

WELL SEALED

| Sealed | Date: | 2020-Aug-2 | 0 | | | | | | | | | |
|--------|---------|------------|---------|----|---------------|------|-----|---------|-----|------|---------|----------|
| Sealed | By: | CANWHITE S | ANDS CO | RP | | | | | | | | |
| Sealed | Type: | | | | | | | | | | | |
| Sealer | Remarks | CASING CUT | OFF AT | 3 | \mathbf{FT} | BGS. | SEE | REMARKS | FOR | MORE | SEALING | REMARKS. |
| | | Outside | Sealed | | | | | | | | | |
| From | To(ft) | Dia.(in) | Materi | al | | | | | | | | |

| WELL INFORMATION REPORT | | | | | | |
|-------------------------|-------|------------|--|--|--|--|
| 0.0 | 4.0 | CEMENT | | | | |
| 0.0 | 4.0 | GRAVEL | | | | |
| 0.0 | 4.0 | OTHER | | | | |
| 4.0 | 9.0 | BENTONITE | | | | |
| 9.0 | 76.0 | PEA GRAVEL | | | | |
| 76.0 | 90.0 | GRAVEL | | | | |
| 90.0 | 154.0 | PEA GRAVEL | | | | |
| 154.0 | 159.0 | BENTONITE | | | | |
| 159.0 | 169.0 | CEMENT | | | | |
| 169.0 | 172.0 | BENTONITE | | | | |
| 172.0 | 172.0 | OTHER | | | | |





Well PID: 203699

| Location: | NW19-11-8E | | |
|-----------------|--------------------------|---------------|---------------------|
| UTMX:679454.5 | UTMY:5535132.4 XY Accura | cy:1 EXACT [< | (GPS] [GPS] |
| UTMZ:260 | Z Accura | cy:4 FAIR - S | Shuttle at Centroid |
| Owner: | CANWHITE / HD MINERALS | | |
| Driller: | Friesen Drillers Ltd. | | |
| Well Name: | BRU 82-10 BH 17-19 | | |
| Date Completed: | 2019 Aug 09 | | |
| Well Use: | TEST WELL | | |
| WATER USE: | Other | | |
| Well Status: | SEALED | Aquifer: | UNKNOWN |

REMARKS:

WITN:003264; LAT AND LONG INTERSECT ON HIGHWAY 302, GPS IS INBETWEEN LEGALS. SEALING REMARKS: A CEMENT PLUG OF 13 FT WAS PLACED INSIDE THE CASING TO PERMANENTLY PREVENT VERTICAL MOVEMENT WITH A TREMIE LINE AS PER DRILLING EGULATION 1992 SPECIFICATION SECTION 7B. MOC:DROT;

| WELL L | OG (Im | perial units) |
|--------|---------|---------------------|
| From | To(ft.) | Log |
| 0.0 | 1 | ORGANICS |
| 1.0 | 19 | BROWN TILL |
| 19.0 | 85 | GREY TILL |
| 85.0 | 91 | LIMESTONE RUBBLE |
| 91.0 | 168 | PURPLE LIMESTONE |
| 168.0 | 177 | RED AND GREEN SHALE |
| 177.0 | 182 | WHITE SANDSTONE |

WELL CONSTRUCTION

| | | | Inside | Outside | Slot | | |
|-------------|------------------------------------|--------------|----------|----------|----------|--------|----------|
| From | To(ft) | Const.Method | Dia.(in) | Dia.(in) | Size(in) | Туре | Material |
| 0.0 | 182.0 | BOREHOLE | | 7.6 | | | |
| 0.0 | 91.0 | CASING | 12.0 | 12.6 | | WELDED | STEEL |
| 0.0 | 182.0 | CASING | 10.0 | 10.6 | | WELDED | STEEL |
| 0.0 | 91.0 | SURFACE SEAL | | | | | CEMENT |
| Top of | Top of Casing: 3.0 ft above ground | | | | | | |
| | | | | | | | |
| WELL SEALED | | | | | | | |

Sealed Date: 2020-Aug-23 Sealed By: CANWHITE SANDS CORP Sealed Type: Sealer Remarks: CASING CUT OFF AT 3 FT BGS. SEE REMARKS FOR MORE SEALING REMARKS. Outside Sealed

2020 Oct 01

WELL INFORMATION REPORT

| From | To(ft) | Dia.(in) | Material |
|-------|--------|----------|------------|
| 0.0 | 4.0 | | CEMENT |
| 0.0 | 4.0 | | GRAVEL |
| 0.0 | 4.0 | | OTHER |
| 4.0 | 9.0 | | BENTONITE |
| 9.0 | 83.0 | | PEA GRAVEL |
| 83.0 | 90.0 | | BENTONITE |
| 90.0 | 148.0 | | PEA GRAVEL |
| 148.0 | 152.0 | | BENTONITE |
| 152.0 | 165.0 | | CEMENT |
| 165.0 | 175.0 | | BENTONITE |
| 175.0 | 175.0 | | OTHER |
| | | | |

Manitoba



Well PID: 199983

| Location: | SW13-5-6E |
|-----------------|--|
| UTMX:669253.6 | UTMY:5473500.5 XY Accuracy:1 EXACT [<5M] [GPS] |
| UTMZ:291 | Z Accuracy:4 FAIR - Shuttle at Centroid |
| Owner: | HD MINERALS |
| Driller: | Friesen Drillers Ltd. |
| Well Name: | DEN 57-1/BH 12-18/ DEN GRP 5 |
| Date Completed: | 2018 Sep 27 |
| Well Use: | TEST WELL |
| WATER USE: | Other |
| Well Status: | SEALED Aquifer: SHALE |

REMARKS:

WITN:002452; #2650, 645 - 7TH AVENUE SW, CALGARY AB, T2P 4G8. MINERAL EXPLORATION / SAMPLING. WELL WAS SEALED AFTER SAMPLING USING ALTERNATING LAYERS OF BENTONITE HOLE PLUG AND WASHED PEA GRAVEL. WELL CASING WAS PULLED OUT AS PART OF WELL SEALING. MOC:DROT,OTHR:RC.

| WELL LOG (Imperial units) | | | | | | |
|---------------------------|---------|-----------------------------|--|--|--|--|
| From | To(ft.) | Log | | | | |
| 0.0 | 25 | BROWN GRAVEL WITH SOME SAND | | | | |
| 25.0 | 194 | GREY TILL | | | | |
| 194.0 | 205 | BROWN TILL | | | | |
| 205.0 | 320 | BROWN LIMESTONE | | | | |
| 320.0 | 325 | RED, GREEN SHALE | | | | |
| 325.0 | 405 | WHITE SANDSTONE | | | | |
| 405.0 | 415 | GREEN SHALE | | | | |

WELL CONSTRUCTION

| | | | Inside | Outside | Slot | | |
|--------|---------|--------------|------------|----------|----------|--------|----------|
| From | To(ft) | Const.Method | Dia.(in) | Dia.(in) | Size(in) | Туре | Material |
| 0.0 | 207.0 | CASING | 8.0 | 8.6 | | WELDED | STEEL |
| 207.0 | 322.0 | OPEN HOLE | | 7.9 | | | |
| 322.0 | 415.0 | OPEN HOLE | | 6.0 | | | |
| Top of | Casing: | 0.0 ft abo | ove ground | đ | | | |

WELL SEALED

| Sealed | Date: | 2018-Sep-27 | 7 | | |
|--------|--------|----------------------|------------|--|--|
| Sealed | By: | FREISEN DRILLERS LTD | | | |
| Sealed | Type: | CONTRACTOR | - DRILLER | | |
| | | Outside | Sealed | | |
| From | To(ft) | Dia.(in) | Material | | |
| 0.0 | 50.0 | | BENTONITE | | |
| 50.0 | 75.0 | | PEA GRAVEL | | |



| 75.0 | 150.0 | BENTONITE |
|-------|-------|------------|
| 150.0 | 175.0 | PEA GRAVEL |
| 175.0 | 415.0 | BENTONITE |



Well PID: 199976

| Location: | SW13-6-6E |
|-----------------|--|
| UTMX:669149 | UTMY:5483394.3 XY Accuracy:1 EXACT [<5M] [GPS] |
| UTMZ:278 | Z Accuracy:4 FAIR - Shuttle at Centroid |
| Owner: | HD MINERALS |
| Driller: | Friesen Drillers Ltd. |
| Well Name: | DEN 84-1/BH 25-18/DEN GRP 8 |
| Date Completed: | 2019 Feb 06 |
| Well Use: | TEST WELL |
| WATER USE: | Other |
| Well Status: | SEALED Aquifer: LIMESTONE AND SANDSTONE |
| | |

REMARKS:

WITN:002465; #2650, 645 - 7TH AVENUE SW, CALGARY AB, T2P 4G8. MINERAL EXPLORATION. WELL WAS SEALED AFTER SAMPLING USING ALTERNATING LAYERS OF BENTONITE HOLE PLUG AND WASHED PEA GRAVEL. WELL CASING WAS PULLED OUT AS PART OF WELL SEALING. MOC:DROT,OTHR:RC.

WELL LOG (Imperial units) From To(ft.) Log 0.0 1 ORGANICS 1.0 155 GREY TILL 155.0 165 BROWN TILL LIMESTONE 165.0 271 RED / GREEN SHALE 271.0 295 295.0 350 YELLOW SANDSTONE 350.0 355 RED SHALE

| | | | Inside | Outside | Slot | | |
|---------|----------|--------------|------------|------------|----------|--------|----------|
| From | To(ft) | Const.Method | Dia.(in) | Dia.(in) | Size(in) | Туре | Material |
| 0.0 | 165.0 | CASING | 8.0 | 8.5 | | WELDED | STEEL |
| 165.0 | 271.0 | OPEN HOLE | 7.9 | | | | |
| 271.0 | 355.0 | OPEN HOLE | 6.0 | | | | |
| Top of | Casing: | 3.0 ft abo | ove ground | 1 | | | |
| | | | | | | | |
| WELL SH | EALED | | | | | | |
| Sealed | Date: | 2019-Feb-06 | 5 | | | | |
| Sealed | By: | FRIESEN DRI | LLERS LTI |) | | | |
| Sealed | Type: | CONTRACTOR | - DRILLER | ર | | | |
| Sealer | Remarks: | JONATHAN BE | RELIS / GH | REG HARDER | ર. | | |
| | | Outside | Sealed | | | | |
| From | To(ft) | Dia.(in) | Material | | | | |
| 0.0 | 75.0 | | BENTONITH | 2 | | | |



| 75.0 | 100.0 | PEA GRAVEL |
|-------|-------|------------|
| 100.0 | 200.0 | BENTONITE |
| 200.0 | 225.0 | PEA GRAVEL |
| 225.0 | 355.0 | BENTONITE |



Well PID: 200824

| Location: | SE14-6-6E | | | | |
|-----------------|--|--|--|--|--|
| UTMX:668787.6 | UTMY:5483383.1 XY Accuracy:2 VERY ACCURATE [<50M] [ORTHO MAPPED] | | | | |
| UTMZ:274 | Z Accuracy:4 FAIR - Shuttle at Centroid | | | | |
| Owner: | HD MINERALS | | | | |
| Driller: | Friesen Drillers Ltd. | | | | |
| Well Name: | DEN 209-1/BH 26-18/DEN GRP 14 | | | | |
| Date Completed: | 2019 Feb 18 | | | | |
| Well Use: | TEST WELL | | | | |
| WATER USE: | Other | | | | |
| Well Status: | ACTIVE Aquifer: LIMESTONE AND SANDSTONE | | | | |

REMARKS:

2650-645 7TH AVE SW, CALGARY AB, T2P 4G8. WELL CAPPED TO PREVENT FLOWING CONDITIONS. TO BE ABANDONED/SEALED. USAGE IS MINERAL EXPLORATION, REPORT INDICATES THIS TEST WELL IS SEALED HOWEVER NO SEALING INFORMATION HAS BEEN PROVIDED - WELL REMAINS WITH AN ACTIVE STATUS. MOC:DROT,OTHR:RC;

WELL LOG (Imperial units) From To(ft.) Log

| I'I Om | 10(10.7 | цод |
|--------|---------|------------------|
| 0.0 | 2 | ORGANICS |
| 2.0 | 10 | BROWN SAND |
| 10.0 | 22 | GREY CLAY |
| 22.0 | 64 | GREY SAND |
| 64.0 | 74 | GREY CLAY |
| 74.0 | 90 | GREY SAND |
| 90.0 | 110 | GREY CLAY |
| 110.0 | 131 | GREY TILL |
| 131.0 | 140 | GREY TILL |
| 140.0 | 176 | LIMESTONE |
| 176.0 | 199 | RED/ GREEN SHALE |
| 199.0 | 239 | SANDSTONE |

WELL CONSTRUCTION

| | | | Inside | Outside | Slot | | |
|--------|---------|--------------|-----------|----------|----------|--------|----------|
| From | To(ft) | Const.Method | Dia.(in) | Dia.(in) | Size(in) | Туре | Material |
| 0.0 | 195.0 | CASING | 8.0 | 8.5 | | WELDED | STEEL |
| 195.0 | 239.0 | OPEN HOLE | 7.9 | | | | |
| Top of | Casing: | 3.0 ft ab | ove groun | d | | | |

PUMPING TESTDate : 2019 Feb 18Pumping Imp. gallons/minuteWater level before test: 3.0 ft below ground



Water level at end of test : 3.0 ft above ground Test duration: Test Zone: from 195.0 ft to 239.0 ft



Well PID: 199985

| Location: | SE34-4-7E |
|-----------------|--|
| UTMX:677550.4 | UTMY:5468705.9 XY Accuracy:1 EXACT [<5M] [GPS] |
| UTMZ:301 | Z Accuracy:4 FAIR - Shuttle at Centroid |
| Owner: | HD MINERALS |
| Driller: | Friesen Drillers Ltd. |
| Well Name: | DEN GROUP 3/DEN 109-1/BH 14-18 |
| Date Completed: | 2019 Feb 04 |
| Well Use: | TEST WELL |
| WATER USE: | Other |
| Well Status: | SEALED Aquifer: LIMESTONE AND SANDSTONE |

REMARKS:

WITN:002470; #2650, 645 - 7TH AVENUE S.W, CALGARY AB, T2P 4G8. MINERAL EXPLORATION / SAMPLING. WELL WAS SEALED AFTER SAMPLING USING ALTERNATING LAYERS OF BENTONITE HOLE PLUG AND WASHED PEA GRAVEL. WELL CASING WAS PULLED OUT AS PART OF WELL SEALING. MOC:DROT,OTHR:RC.

| WELL LO | DG (Imp | perial units) |
|---------|---------|---------------------|
| From | To(ft.) | Log |
| 0.0 | 9 | BROWN SAND & GRAVEL |
| 9.0 | 14 | GREY CLAY |
| 14.0 | 17 | GRAVEL |
| 17.0 | 190 | GREY TILL |
| 190.0 | 199 | BROWN TILL |
| 199.0 | 250 | LIMESTONE |
| 250.0 | 256 | RED / GREEN SHALE |
| 256.0 | 347 | WHITE SANDSTONE |
| 347.0 | 349 | RED SHALE |

| | | | Inside | Outside | Slot | | |
|---------|---------|--------------|------------|----------|----------|--------|----------|
| From | To(ft) | Const.Method | Dia.(in) | Dia.(in) | Size(in) | Туре | Material |
| 0.0 | 199.0 | CASING | 8.0 | 8.5 | | WELDED | STEEL |
| 199.0 | 246.0 | OPEN HOLE | 7.9 | | | | |
| 246.0 | 349.0 | OPEN HOLE | 6.0 | | | | |
| Top of | Casing: | 0.0 ft abo | ove ground | 1 | | | |
| | | | | | | | |
| WELL SE | EALED | | | | | | |
| Sealed | Date: | 2019-Feb-04 | Ł | | | | |
| Sealed | By: | FRIESEN DRI | LLERS LTI |) | | | |
| Sealed | Type: | CONTRACTOR | - DRILLER | 2 | | | |
| | | Outside | Sealed | | | | |
| From | To(ft) | Dia.(in) | Material | | | | |
| | | | | | | | |



| 0.0 | 75.0 | BENTONITE |
|-------|-------|------------|
| 75.0 | 100.0 | PEA GRAVEL |
| 100.0 | 175.0 | BENTONITE |
| 175.0 | 200.0 | PEA GRAVEL |
| 200.0 | 349.0 | BENTONITE |



Well PID: 199969

| Location: | NW16-5-7E |
|-----------------|--|
| UTMX:674197.4 | UTMY:5474306.5 XY Accuracy:1 EXACT [<5M] [GPS] |
| UTMZ:297 | Z Accuracy:4 FAIR - Shuttle at Centroid |
| Owner: | HD MINERALS |
| Driller: | Friesen Drillers Ltd. |
| Well Name: | DEN 115-1/BH 28-18/DEN GRP 6 |
| Date Completed: | 2018 Oct 28 |
| Well Use: | TEST WELL |
| WATER USE: | Other |
| Well Status: | SEALED Aquifer: LIMESTONE AND SANDSTONE |

REMARKS:

WITN:002459; #2650, 645 - 7TH AVENUE SW, CALGARY AB, T2P 4G8. TEST WELL: MINERAL EXPLORATION. WELL WAS SEALED AFTER SAMPLING USING ALTERNATING LAYERS OF BENTONITE HOLE PLUG AND WASHED PEA GRAVEL. WELL CASING WAS PULLED OUT AS PART OF WELL SEALING. MOC:OTHR:RC.

| WELL LO | DG (Imp | perial units) |
|---------|---------|----------------------------|
| From | To(ft.) | Log |
| 0.0 | 68 | GREY TILL |
| 68.0 | 76 | SAND AND GRAVEL |
| 76.0 | 150 | GREY TILL |
| 150.0 | 165 | GREY TILL WITH SOME GRAVEL |
| 165.0 | 195 | SAND AND GRAVEL |
| 195.0 | 202 | LIMESTONE RUBBLE |
| 202.0 | 296 | LIMESTONE |
| 296.0 | 308 | REDDISH GREEN SHALE |
| 308.0 | 395 | SANDSTONE |
| 395.0 | 396 | SHALE |

| | | | Inside | Outside | Slot | | |
|---------|---------|--------------|------------|----------|----------|--------|----------|
| From | To(ft) | Const.Method | Dia.(in) | Dia.(in) | Size(in) | Туре | Material |
| 0.0 | 203.0 | CASING | 8.0 | 8.6 | | WELDED | STEEL |
| 203.0 | 296.0 | OPEN HOLE | | 7.9 | | | |
| 296.0 | 395.0 | OPEN HOLE | | 6.0 | | | |
| Top of | Casing: | 0.0 ft abo | ove ground | 1 | | | |
| | | | | | | | |
| WELL SH | EALED | | | | | | |
| Sealed | Date: | 2018-Oct-28 | 3 | | | | |
| Sealed | By: | FRIESEN DRI | ILLERS LTI | C | | | |
| Sealed | Type: | CONTRACTOR | - DRILLER | ર | | | |
| | | Outside | Sealed | | | | |



| From | To(ft) | Dia.(in) | Material |
|-------|--------|----------|------------|
| 0.0 | 50.0 | | BENTONITE |
| 50.0 | 75.0 | | PEA GRAVEL |
| 75.0 | 210.0 | | BENTONITE |
| 210.0 | 235.0 | | PEA GRAVEL |
| 235.0 | 396.0 | | BENTONITE |



Well PID: 199975

| Location: | NE20-5-7E | | |
|-----------------|--|--|--|
| UTMX:674034.3 | UTMY:5476190.7 XY Accuracy:1 EXACT [<5M] [GPS] | | |
| UTMZ:294 | Z Accuracy:4 FAIR - Shuttle at Centroid | | |
| Owner: | HD MINERALS | | |
| Driller: | Friesen Drillers Ltd. | | |
| Well Name: | DEN 130-1/BH 17-18/DEN GRP 7 | | |
| Date Completed: | 2018 Oct 19 | | |
| Well Use: | TEST WELL | | |
| WATER USE: | Other | | |
| Well Status: | SEALED Aquifer: LIMESTONE AND SANDSTONE | | |

REMARKS:

WITN:002458; #2650, 645 - 7TH AVENUE SW, CALGARY AB, T2P 4G8. MINERAL EXPLORATION / SAMPLING. WELL WAS SEALED AFTER SAMPLING USING ALTERNATING LAYERS OF BENTONITE HOLE PLUG AND WASHED PEA GRAVEL, WELL CASING WAS PULLED OUT AS PART OF WELL SEALING. MOC:DROT,OTHR:RC.

| WELL LOG (Imperial units) | | | | |
|---------------------------|---------|-------------------------|--|--|
| From | To(ft.) | Log | | |
| 0.0 | 50 | BROWNISH GREY FINE SAND | | |
| 50.0 | 100 | GREY TILL | | |
| 100.0 | 166 | GREY FINE SAND | | |
| 166.0 | 187 | GREY TILL | | |
| 187.0 | 201 | BROWN SAND AND GRAVEL | | |
| 201.0 | 295 | BROWN LIMESTONE | | |
| 295.0 | 297 | RED SHALE | | |
| 297.0 | 385 | WHITE SANDSTONE | | |
| 385.0 | 390 | GREEN SHALE | | |

| | | | Inside | Outside | Slot | | |
|---------|---------|--------------|------------|----------|----------|--------|----------|
| From | To(ft) | Const.Method | Dia.(in) | Dia.(in) | Size(in) | Туре | Material |
| 0.0 | 202.0 | CASING | 8.0 | 8.6 | | WELDED | STEEL |
| 202.0 | 295.0 | OPEN HOLE | | 7.9 | | | |
| 295.0 | 390.0 | OPEN HOLE | | 6.0 | | | |
| Top of | Casing: | 0.0 ft abo | ove ground | 1 | | | |
| | | | | | | | |
| WELL SE | EALED | | | | | | |
| Sealed | Date: | 2018-Oct-19 | Ð | | | | |
| Sealed | By: | FRIESEN DRI | LLERS LTI | D | | | |
| Sealed | Type: | CONTRACTOR | - DRILLER | ર | | | |
| | | Outside | Sealed | | | | |
| From | To(ft) | Dia.(in) | Material | | | | |
| | | | | | | | |



| 0.0 | 50.0 | BENTONITE |
|-------|-------|------------|
| 50.0 | 75.0 | PEA GRAVEL |
| 75.0 | 150.0 | BENTONITE |
| 150.0 | 175.0 | PEA GRAVEL |
| 175.0 | 390.0 | BENTONITE |



Well PID: 199978

| Location: | SW24-5-7E |
|-----------------|--|
| UTMX:679682.5 | UTMY:5474851.1 XY Accuracy:1 EXACT [<5M] [GPS] |
| UTMZ:300 | Z Accuracy:4 FAIR - Shuttle at Centroid |
| Owner: | HD MINERALS |
| Driller: | Friesen Drillers Ltd. |
| Well Name: | DEN 134-1/BH 18-18/DEN GRP 9 |
| Date Completed: | 2019 Feb 07 |
| Well Use: | TEST WELL |
| WATER USE: | Other |
| Well Status: | SEALED Aquifer: LIMESTONE AND SANDSTONE |

REMARKS:

WITN:002469; #2650, 645 - 7TH AVENUE SW, CALGARY AB, T2P 4G8. MINERAL EXPLORATION. WELL WAS SEALED AFTER SAMPLING USING ALTERNATING LAYERS OF BENTONITE HOLE PLUG AND WASHED PEA GRAVEL. WELL CASING WAS PULLED OUT AS PART OF WELL SEALING. MOC:DROT,OTHR:RC.

| WELL LO | DG (Imj | perial units) |
|---------|---------|-------------------|
| From | To(ft.) | Log |
| 0.0 | 2 | ORGANICS |
| 2.0 | 15 | BROWN TILL |
| 15.0 | 38 | GREY TILL |
| 38.0 | 42 | SAND |
| 42.0 | 118 | GREY TILL |
| 118.0 | 135 | SAND |
| 135.0 | 150 | GRAVEL |
| 150.0 | 160 | SAND |
| 160.0 | 180 | GREY TILL |
| 180.0 | 258 | LIMESTONE |
| 258.0 | 263 | RED / GREEN SHALE |
| 263.0 | 361 | BROWN SANDSTONE |

WELL CONSTRUCTION

Inside Outside Slot To(ft) Const.Method Dia.(in) Dia.(in) Size(in) Type From Material 0.0 180.0 CASING 8.0 8.5 WELDED STEEL 180.0 258.0 OPEN HOLE 7.9 258.0 361.0 OPEN HOLE 6.0 Top of Casing: 3.0 ft above ground WELL SEALED Sealed Date: 2019-Feb-07 Sealed By: FRIESEN DRILLERS LTD



| Sealed | Type: | CONTRACTOR | - DRILLER |
|--------|--------|------------|------------|
| | | Outside | Sealed |
| From | To(ft) | Dia.(in) | Material |
| 0.0 | 75.0 | | BENTONITE |
| 75.0 | 100.0 | | PEA GRAVEL |
| 100.0 | 200.0 | | BENTONITE |
| 200.0 | 225.0 | | PEA GRAVEL |
| 225.0 | 361.0 | | BENTONITE |
| | | | |



Well PID: 199973

| Location: | SW11-8-7E | | |
|-----------------|--|--|--|
| UTMX:677457.2 | UTMY:5501171.2 XY Accuracy:1 EXACT [<5M] [GPS] | | |
| UTMZ:278 | Z Accuracy:4 FAIR - Shuttle at Centroid | | |
| Owner: | HD MINERALS | | |
| Driller: | Friesen Drillers Ltd. | | |
| Well Name: | DEN 143-1/BH 19-18/DEN GRP 10 | | |
| Date Completed: | 2018 Nov 01 | | |
| Well Use: | TEST WELL | | |
| WATER USE: | Other | | |
| Well Status: | SEALED Aquifer: LIMESTONE AND SANDSTONE | | |

REMARKS:

WITN:002460; #2650, 645 - 7TH AVENUE SW, CALGARY AB, T2P 4G8. COORDINATES AND LEGAL ON REPORT DO NOT MATCH, USED GPS COORDINATES IN GWDRILL, WELL REPORTED TO BE IN LEGAL NE-35-5-7E. MINERAL EXPLORATION / SAMPLING. WELL WAS SEALED AFTER SAMPLING USING ALTERNATING LAYERS OF BENTONITE HOLE PLUG AND WASHED PEA GRAVEL. WELL CASING WAS PULLED OUT AS PART OF WELL SEALING. MOC:DROT,OTHR:RC.

| WELL L | OG (Im | perial units) |
|--------|---------|---------------------|
| From | To(ft.) | Log |
| 0.0 | 10 | BROWN TILL |
| 10.0 | 63 | GREY TILL |
| 63.0 | 110 | SAND |
| 110.0 | 115 | GRAVEL |
| 115.0 | 166 | SAND |
| 166.0 | 185 | TILL |
| 185.0 | 250 | LIMESTONE |
| 250.0 | 253 | REDDISH GREEN SHALE |
| 253 0 | 331 | SANDSTONE |

| 253.0 | 331 | SANDSTONE |
|-------|-----|-------------|
| 331.0 | 334 | GREEN SHALE |

| | Inside | Outside S | Slot | | |
|------------------|----------------------|------------|----------|--------|----------|
| From To(ft) Cor | nst.Method Dia.(in) | Dia.(in) S | Size(in) | Туре | Material |
| 0.0 185.0 CAS | SING 8.0 | 8.6 | | WELDED | STEEL |
| 185.0 251.0 OPE | EN HOLE | 7.9 | | | |
| 251.0 334.0 OPE | EN HOLE | 6.0 | | | |
| Top of Casing: 0 | 0.0 ft above ground | ł | | | |
| | | | | | |
| WELL SEALED | | | | | |
| Sealed Date: 2 | 2018-Nov-01 | | | | |
| Sealed By: F | FRIESEN DRILLERS LTI | 0 | | | |
| | | | | | |



| Sealed | Type: | CONTRACTOR | - DRILLER |
|--------|--------|------------|------------|
| | | Outside | Sealed |
| From | To(ft) | Dia.(in) | Material |
| 0.0 | 50.0 | | BENTONITE |
| 50.0 | 75.0 | | PEA GRAVEL |
| 75.0 | 200.0 | | BENTONITE |
| 200.0 | 225.0 | | PEA GRAVEL |
| 225.0 | 334.0 | | BENTONITE |
| | | | |



Well PID: 199984

| Location: | NE28-10-7E |
|-----------------|--|
| UTMX:674603.1 | UTMY:5526390.2 XY Accuracy:1 EXACT [<5M] [GPS] |
| UTMZ:265 | Z Accuracy:4 FAIR - Shuttle at Centroid |
| Owner: | HD MINERALS |
| Driller: | Friesen Drillers Ltd. |
| Well Name: | BRU 28-1/BH 29-18/BRU GRP 1 |
| Date Completed: | 2019 Jan 19 |
| Well Use: | TEST WELL |
| WATER USE: | Other |
| Well Status: | SEALED Aquifer: LIMESTONE AND SANDSTONE |

REMARKS:

WITN:002464; #2650, 645 - 7TH AVENUE SW, CALGARY AB, T2P 4G8. MINERAL EXPLORATION. WELL WAS SEALED AFTER SAMPLING USING ALTERNATING LAYERS OF BENTONITE HOLE PLUG AND WASHED PEA GRAVEL. WELL CASING WAS PULLED OUT AS PART OF WELL SEALING. MOC:DROT,OTHR:RC.

| WELL L | OG (Im | perial units) |
|--------|---------|---------------------|
| From | To(ft.) | Log |
| 0.0 | 2 | ORGANICS |
| 2.0 | 16 | GRAVEL |
| 16.0 | 24 | SAND |
| 24.0 | 49 | GRAVEL |
| 49.0 | 63 | GREY TILL |
| 63.0 | 72 | BROWN GRAVEL |
| 72.0 | 180 | LIMESTONE |
| 180.0 | 192 | BROWN / GREEN SHALE |
| 192.0 | 267 | WHITE SANDSTONE |

| | | | Inside | Outside | Slot | | |
|---------|---------|--------------|------------|----------|----------|--------|----------|
| From | To(ft) | Const.Method | Dia.(in) | Dia.(in) | Size(in) | Туре | Material |
| 0.0 | 98.0 | CASING | 8.0 | 8.5 | | WELDED | STEEL |
| 98.0 | 192.0 | OPEN HOLE | 7.9 | | | | |
| 192.0 | 267.0 | OPEN HOLE | 6.0 | | | | |
| Top of | Casing: | 0.0 ft abo | ove ground | 1 | | | |
| | | | | | | | |
| WELL SE | ALED | | | | | | |
| Sealed | Date: | 2019-Jan-19 |) | | | | |
| Sealed | By: | FRIESEN DRI | LLERS LTI |) | | | |
| Sealed | Type: | CONTRACTOR | - DRILLER | 2 | | | |
| | | Outside | Sealed | | | | |
| From | To(ft) | Dia.(in) | Material | | | | |
| | | | | | | | |



| 0.0 | 75.0 | BENTONITE |
|-------|-------|------------|
| 75.0 | 100.0 | PEA GRAVEL |
| 100.0 | 175.0 | BENTONITE |
| 175.0 | 190.0 | PEA GRAVEL |
| 190.0 | 267.0 | BENTONITE |
| | | |



Well PID: 199971

| Location: | NW10-4-8E |
|-----------------|--|
| UTMX:686332.1 | UTMY:5463497.8 XY Accuracy:1 EXACT [<5M] [GPS] |
| UTMZ:310 | Z Accuracy:4 FAIR - Shuttle at Centroid |
| Owner: | HD MINERALS |
| Driller: | Friesen Drillers Ltd. |
| Well Name: | DEN 166-1/DEN GRP 1/BH 31-18 |
| Date Completed: | 2018 Nov 21 |
| Well Use: | TEST HOLE |
| WATER USE: | Other |
| Well Status: | SEALED Aquifer: NO AQUIFER |

REMARKS:

WITN:002462; #2650 - 645 7TH AVENUE S.W, CALGARY AB, T2P 4G8. MINERAL EXPLORATION. TEST HOLE WAS SEALED WITH BENTONITE GROUT AFTER DRILLING. MOC:ROTM.

| WELL L | OG (Im | perial units) |
|--------|---------|----------------------------------|
| From | To(ft.) | Log |
| 0.0 | 28 | FINE SAND |
| 28.0 | 61 | GREY CLAY |
| 61.0 | 102 | GREY SANDY TILL |
| 102.0 | 121 | GREY CLAY |
| 121.0 | 218 | GREY SANDY TILL |
| 218.0 | 295 | GREY SANDY TILL WITH CLAY LAYERS |
| 0.0 | 295 | BLUE SHALE |

WELL CONSTRUCTION

| | | | Inside | Outside | Slot | | |
|--------|---------|--------------|-----------|----------|----------|------|----------|
| From | To(ft) | Const.Method | Dia.(in) | Dia.(in) | Size(in) | Туре | Material |
| 0.0 | 295.0 | BOREHOLE | 7.9 | | | | |
| Top of | Casing: | 0.0 ft ab | ove groun | d | | | |

WELL SEALED

| Sealed | Date: | 2018-Nov | -21 |
|--------|---------|----------|------------------------|
| Sealed | By: | FRIESEN | DRILLERS LTD |
| Sealed | Type: | CONTRACT | OR - DRILLER |
| Sealer | Remarks | JAY ST. | GODARD / STANLEY FLEAR |
| | | Outside | Sealed |
| From | To(ft) | Dia.(in) | Material |
| 0.0 | 295.0 | | BENTONITE |



Well PID: 199981

| Location: | NW30-4-8E | | | |
|-----------------|--|--|--|--|
| UTMX:680992.1 | UTMY:5468225.3 XY Accuracy:1 EXACT [<5M] [GPS] | | | |
| UTMZ:306 | Z Accuracy:4 FAIR - Shuttle at Centroid | | | |
| Owner: | HD MINERALS | | | |
| Driller: | Friesen Drillers Ltd. | | | |
| Well Name: | DEN 178-1/DEN GRP 2/ BH 13-18 | | | |
| Date Completed: | 2019 Feb 01 | | | |
| Well Use: | TEST WELL | | | |
| WATER USE: | Other | | | |
| Well Status: | SEALED Aquifer: SANDSTONE | | | |
| | | | | |

REMARKS:

WITN:002471; #2650, 645 - 7TH AVENUE SW, CALGARY AB, T2P 4G8. MINERAL EXPLORATION. MOC:DROT,OTHR:RC.

| WELL LO | OG (Imj | perial units) |
|---------|---------|-------------------|
| From | To(ft.) | Log |
| 0.0 | 10 | ORGANICS |
| 10.0 | 156 | GREY TILL |
| 156.0 | 180 | GREY SAND |
| 180.0 | 198 | GREY TILL |
| 198.0 | 226 | RED / GREEN SHALE |
| 226.0 | 302 | WHITE SANDSTONE |
| 302.0 | 302 | GREEN SHALE |

WELL CONSTRUCTION

Inside Outside Slot

| From | To(ft) | Const.Method | Dia.(in) | Dia.(in) | Size(in) | Туре | Material |
|--------|---------|--------------|------------|----------|----------|--------|----------|
| 0.0 | 198.0 | CASING | 8.0 | 8.5 | | WELDED | STEEL |
| 198.0 | 219.0 | OPEN HOLE | 7.9 | | | | |
| 219.0 | 302.0 | OPEN HOLE | 6.0 | | | | |
| Top of | Casing: | 2.6 ft abo | ove ground | đ | | | |

WELL SEALED

| Sealed | Date: | 2019-Feb-0 | L |
|--------|--------|------------|------------|
| Sealed | By: | FRIESEN DR | ILLERS LTD |
| Sealed | Type: | CONTRACTOR | - DRILLER |
| | | Outside | Sealed |
| From | To(ft) | Dia.(in) | Material |
| 0.0 | 50.0 | | BENTONITE |
| 50.0 | 80.0 | | PEA GRAVEL |
| 80.0 | 185.0 | | BENTONITE |
| 185.0 | 220.0 | | PEA GRAVEL |



220.0 302.0

.

BENTONITE



Well PID: 199979

| Location: | NW17-5-8E | | | | |
|-----------------|--|--|--|--|--|
| UTMX:683088.8 | UTMY:5474866.1 XY Accuracy:1 EXACT [<5M] [GPS] | | | | |
| UTMZ:302 | Z Accuracy:4 FAIR - Shuttle at Centroid | | | | |
| Owner: | HD MINERALS | | | | |
| Driller: | Friesen Drillers Ltd. | | | | |
| Well Name: | DEN 189-1/BH 27-18/DEN GRP 4 | | | | |
| Date Completed: | 2019 Feb 05 | | | | |
| Well Use: | TEST WELL | | | | |
| WATER USE: | Other | | | | |
| Well Status: | SEALED Aquifer: LIMESTONE AND SANDSTONE | | | | |

REMARKS:

WITN:002468; #2650, 645 - 7TH AVENUE SW, CALGARY AB, T2P 4G8. MINERAL EXPLORATION. WELL WAS SEALED AFTER SAMPLING USING ALTERNATING LAYERS OF BENTONITE HOLE PLUG AND WASHED PEA GRAVEL. WELL CASING WAS PULLED OUT AS PART OF WELL SEALING. MOC:DROT,OTHR:RC.

| WELL LO | OG (Imp | perial units) |
|---------|---------|-------------------|
| From | To(ft.) | Log |
| 0.0 | 2 | ORGANICS |
| 2.0 | 15 | BROWN TILL |
| 15.0 | 45 | GREY TILL |
| 45.0 | 85 | GREY SAND |
| 85.0 | 185 | GREY TILL |
| 185.0 | 187 | GREY SAND |
| 187.0 | 238 | LIMESTONE |
| 238.0 | 243 | RED / GREEN SHALE |
| 243.0 | 320 | WHITE SANDSTONE |

| | | | Inside | Outside | Slot | | |
|---------|---------|--------------|------------|----------|----------|--------|----------|
| From | To(ft) | Const.Method | Dia.(in) | Dia.(in) | Size(in) | Туре | Material |
| 0.0 | 189.0 | CASING | 8.0 | 8.5 | | WELDED | STEEL |
| 170.0 | 238.0 | OPEN HOLE | 7.9 | | | | |
| 238.0 | 320.0 | OPEN HOLE | 6.0 | | | | |
| Top of | Casing: | 0.0 ft abo | ove ground | 1 | | | |
| | | | | | | | |
| WELL SE | EALED | | | | | | |
| Sealed | Date: | 2019-Feb-05 | 5 | | | | |
| Sealed | By: | FRIESEN DRI | LLERS LTI | D | | | |
| Sealed | Type: | CONTRACTOR | - DRILLER | ર | | | |
| | | Outside | Sealed | | | | |
| From | To(ft) | Dia.(in) | Material | | | | |
| | | | | | | | |



| 0.0 | 125.0 | BENTONITE |
|-------|-------|------------|
| 125.0 | 150.0 | PEA GRAVEL |
| 150.0 | 215.0 | BENTONITE |
| 215.0 | 240.0 | PEA GRAVEL |
| 240.0 | 320.0 | BENTONITE |



Well PID: 201054

| Location: | NE17-6-8E | | | | |
|-----------------|--|--|--|--|--|
| UTMX:682773.9 | UTMY:5484468 XY Accuracy:2 VERY ACCURATE [<50M] [ORTHO MAPPED] | | | | |
| UTMZ:286 | Z Accuracy:4 FAIR - Shuttle at Centroid | | | | |
| Owner: | HD MINERALS | | | | |
| Driller: | Friesen Drillers Ltd. | | | | |
| Well Name: | DEN 216-1/ BH 16-18/DEN GRP 11 | | | | |
| Date Completed: | 2019 Jan 24 | | | | |
| Well Use: | TEST WELL | | | | |
| WATER USE: | Other | | | | |
| Well Status: | SEALED Aquifer: SHALE | | | | |
| | | | | | |

REMARKS:

WITN:002467; 2650-645 7TH AVE SW, CALGARY AB, T2P 4G8. MINERAL EXPLORATION. WELL SEALED AFTER SAMPLING WITH WASHED PEA GRAVEL AND BENTONITE LAYERS. WELL CASING WAS PULLED OUT. MOC:DROT,RC;

| WELL L | OG (Im | perial units) |
|--------|---------|-----------------------------|
| From | To(ft.) | Log |
| 0.0 | 1 | ORGANICS |
| 1.0 | 3 | SAND |
| 3.0 | 35 | GREY CLAY |
| 35.0 | 109 | GREY TILL |
| 109.0 | 116 | LIMESTONE RUBBLE AND GRAVEL |
| 116.0 | 139 | BROWN TILL |
| 139.0 | 208 | LIMESTONE RUBBLE |
| 208.0 | 217 | RED/ GREEN SHALE |
| 217.0 | 309 | WHITE SANDSTONE |
| 309.0 | 313 | SHALE |
| | | |

WELL CONSTRUCTION

| | | | Inside | Outside | Slot | | | |
|---------|----------|---------------|------------|------------|------------|-----------|-------------|---|
| From | To(ft) | Const.Method | Dia.(in) | Dia.(in) | Size(in) | Туре | Material | |
| 0.0 | 170.0 | CASING | 8.0 | 8.5 | | WELDED | STEEL | |
| 170.0 | 208.0 | OPEN HOLE | 7.9 | | | | | |
| 208.0 | 313.0 | OPEN HOLE | 6.0 | | | | | |
| Top of | Casing: | 0.0 ft abo | ove ground | 1 | | | | |
| | | | | | | | | |
| WELL SE | ALED | | | | | | (4) | |
| Sealed | Date: | 2019-Jan-24 | ł | | | | | |
| Sealed | By: | FRIESEN DRI | LLERS LTI | 0 | | | | |
| Sealed | Type: | CONTRACTOR | - DRILLER | ર | | | | |
| Sealer | Remarks: | SEALED AFTE | ER SAMPLIN | NG USING A | ALTERNATIN | NG LAYERS | OF BENTONIT | E |
| | | WASHED GRAVEI | L. CASING | WAS PULL | ED. | | | |
| | | | | | | | | |

AND



| | | Outside | Sealed |
|-------|--------|----------|------------|
| From | To(ft) | Dia.(in) | Material |
| 0.0 | 75.0 | | BENTONITE |
| 75.0 | 100.0 | | PEA GRAVEL |
| 100.0 | 175.0 | | BENTONITE |
| 175.0 | 200.0 | | PEA GRAVEL |
| 200.0 | 313.0 | | BENTONITE |



Well PID: 199968

| Location: | NW26-6-8E | | | |
|-----------------|--|--|--|--|
| UTMX:687208.9 | UTMY:5487865.8 XY Accuracy:1 EXACT [<5M] [GPS] | | | |
| UTMZ:295 | Z Accuracy:4 FAIR - Shuttle at Centroid | | | |
| Owner: | HD MINERALS | | | |
| Driller: | Friesen Drillers Ltd. | | | |
| Well Name: | DEN 223-1/BH 20-18/DEN GRP 13 | | | |
| Date Completed: | 2018 Nov 12 | | | |
| Well Use: | TEST WELL | | | |
| WATER USE: | Other | | | |
| Well Status: | SEALED Aquifer: SHALE | | | |

REMARKS:

WITN:002461; #2650, 645 - 7TH AVENUE SW, CALGARY AB, T2P 4G8. TEST WELL: MINERAL EXPLORATION SAMPLING. WELL WAS SEALED AFTER SAMPLING USING ALTERNATING LAYERS OF BENTONITE LAYERS OF BENTONITE HOLE PLUG AND WASHED PEA GRAVEL. WELL CASING WAS PULLED OUT AS PART OF WELL SEALING. MOC:OTHR:RC.

| WELL LO | OG (Im | perial units) |
|---------|---------|-----------------|
| From | To(ft.) | Log |
| 0.0 | 1 | ORGANICS |
| 1.0 | 18 | BROWN TILL |
| 18.0 | 120 | GREY TILL |
| 120.0 | 141 | BROWN TILL |
| 141.0 | 191 | LIMESTONE |
| 191.0 | 193 | RED/GREEN SHALE |
| 193.0 | 250 | SANDSTONE |
| 250.0 | 254 | RED/GREEN SHALE |

| | | | Inside | Outside | Slot | | |
|---------|---------|--------------|------------|----------|----------|--------|----------|
| From | To(ft) | Const.Method | Dia.(in) | Dia.(in) | Size(in) | Туре | Material |
| 0.0 | 142.0 | CASING | 8.0 | 8.6 | | WELDED | STEEL |
| 142.0 | 191.0 | OPEN HOLE | | 7.9 | | | |
| 191.0 | 254.0 | OPEN HOLE | | 6.0 | | | |
| Top of | Casing: | 0.0 ft abo | ove ground | 1 | | | |
| | | | | | | | |
| WELL SE | EALED | | | | | | |
| Sealed | Date: | 2018-Nov-12 | 2 | | | | |
| Sealed | By: | FRIESEN DRI | LLERS LTI | D | | | |
| Sealed | Type: | CONTRACTOR | - DRILLER | ર | | | |
| | | Outside | Sealed | | | | |
| From | To(ft) | Dia.(in) | Material | | | | |



| 0.0 | 50.0 | BENTONITE |
|-------|-------|------------|
| 50.0 | 75.0 | PEA GRAVEL |
| 75.0 | 150.0 | BENTONITE |
| 150.0 | 175.0 | PEA GRAVEL |
| 175.0 | 254.0 | BENTONITE |



Well PID: 199974

| Location: | SE2-9-8E |
|-----------------|--|
| UTMX:687663.9 | UTMY:5509379.7 XY Accuracy:1 EXACT [<5M] [GPS] |
| UTMZ:277 | Z Accuracy:4 FAIR - Shuttle at Centroid |
| Owner: | HD MINERALS |
| Driller: | Friesen Drillers Ltd. |
| Well Name: | BRU 101-1/BH 21-18/BRU GRP 9 |
| Date Completed: | 2018 Oct 05 |
| Well Use: | TEST WELL |
| WATER USE: | Other |
| Well Status: | SEALED Aquifer: SAND AND GRAVEL |

REMARKS:

WITN:002455; #2650, 645 - 7TH AVENUE SW, CALGARY AB, T2P 4G8. MINERAL EXPLORATION / SAMPLING. WELL WAS SEALED AFTER SAMPLING USING ALTERNATING LAYERS OF BENTONITE HOLE PLUG AND WASHED PEA GRAVEL. WELL CASING TO BE PULLED OUT. MOC:DROT,OTHR:RC.

WELL LOG (Imperial units)

| From | To(ft.) | Log |
|-------|---------|---|
| 0.0 | 8 | BROWN GRAVEL |
| 8.0 | 60 | BROWN TILL |
| 60.0 | 73 | BROWN SAND AND GRAVEL |
| 73.0 | 120 | GREY TILL WITH SOME SAND LAYERS |
| 120.0 | 196 | GREY SAND WITH SOME GRAVEL LAYERS (SILTY) |

WELL CONSTRUCTION

75.0 95.0

95.0 115.0

115.0 196.0

| | | | Inside | Outside | Slot | | |
|----------|---------|--------------|------------|----------|----------|--------|----------|
| From T | Fo(ft) | Const.Method | Dia.(in) | Dia.(in) | Size(in) | Туре | Material |
| 0.0 1 | L80.0 | CASING | 8.0 | 8.6 | | WELDED | STEEL |
| 180.0 1 | L96.0 | OPEN HOLE | | 6.0 | | | |
| Top of C | Casing: | 0.0 ft abo | ove ground | 1 | | | |
| | | | | | | | |
| WELL SEA | ALED | | | | | | |
| Sealed D | Date: | 2018-Oct-05 | 5 | | | | |
| Sealed B | By: | FRIESEN DRI | LLERS LTI |) | | | |
| Sealed T | Type: | CONTRACTOR | - DRILLER | ε | | | |
| | | Outside | Sealed | | | | |
| From T | [o(ft) | Dia.(in) | Material | | | | |
| 0.0 5 | 50.0 | | BENTONITE | 2 | | | |
| 50.0 7 | 75.0 | | PEA GRAVE | EL | | | |

BENTONITE

PEA GRAVEL

BENTONITE



Well PID: 199965

| Location: | NW18-9-8E |
|-----------------|--|
| UTMX:680608.9 | UTMY:5513231.6 XY Accuracy:1 EXACT [<5M] [GPS] |
| UTMZ:272 | Z Accuracy:4 FAIR - Shuttle at Centroid |
| Owner: | HD MINERALS |
| Driller: | Friesen Drillers Ltd. |
| Well Name: | BRU 117-1/BRU GRP 7/BH 22-18 |
| Date Completed: | 2018 Oct 15 |
| Well Use: | TEST WELL |
| WATER USE: | Other |
| Well Status: | SEALED Aquifer: LIMESTONE AND SANDSTONE |

REMARKS:

WITN:002457; #2650, 645 - 7TH AVENUE SW, CALGARY AB, T2P 4G8. TEST WELL: MINERAL EXPLORATION / SAMPLING. WELL WAS SEALED AFTER SAMPLING USING ALTERNATING LAYERS OF BENTONITE HOLE PLUG AND WASHED PEA GRAVEL. WELL CASING WAS PULLED OUT AS PART OF WELL SEALING. MOC:OTHR:RC.

| WELL | LOG (Im | perial units) |
|-------|---------|------------------------------------|
| From | To(ft.) | Log |
| 0.0 | 34 | BROWN SAND AND GRAVEL |
| 34.0 | 53 | GREY TILL |
| 53.0 | 91 | BROWN TILL WITH SOME GRAVEL LAYERS |
| 91.0 | 99 | BROWN BROKEN LIMESTONE |
| 99.0 | 173 | BROWN LIMESTONE |
| 173.0 | 182 | GREEN, RED SHALE |
| 182.0 | 239 | WHITE SANDSTONE |

| | | | Inside | Outside | Slot | | |
|--------|---------|--------------|------------|----------|----------|--------|----------|
| From | To(ft) | Const.Method | Dia.(in) | Dia.(in) | Size(in) | Туре | Material |
| 0.0 | 102.0 | CASING | 8.0 | 8.6 | | WELDED | STEEL |
| 102.0 | 173.0 | OPEN HOLE | | 7.9 | | | |
| 173.0 | 239.0 | OPEN HOLE | | 6.0 | | | |
| Top of | Casing: | 0.0 ft abo | ove ground | đ | | | |
| | | | | | | | |

| WELL SI | EALED | | |
|---------|--------|------------|------------|
| Sealed | Date: | 2018-Oct-1 | 5 |
| Sealed | By: | FRIESEN DR | ILLERS LTD |
| Sealed | Type: | CONTRACTOR | - DRILLER |
| | | Outside | Sealed |
| From | To(ft) | Dia.(in) | Material |
| 0.0 | 70.0 | | BENTONITE |



| 70.0 | 90.0 | PEA GRAVEL | | |
|-------|-------|------------|--|--|
| 90.0 | 145.0 | BENTONITE | | |
| 145.0 | 170.0 | PEA GRAVEL | | |
| 170.0 | 239.0 | BENTONITE | | |



Well PID: 200861

| Location: | NW22-9-8E |
|-----------------|--|
| UTMX:685310.5 | UTMY:5515834.8 XY Accuracy:1 EXACT [<5M] [GPS] |
| UTMZ:274 | Z Accuracy:4 FAIR - Shuttle at Centroid |
| Owner: | HD MINERALS |
| Driller: | Friesen Drillers Ltd. |
| Well Name: | BRU 121-1/ BH 30-18/ BRU GRP10 |
| Date Completed: | 2019 Feb 19 |
| Well Use: | TEST WELL |
| WATER USE: | Other |
| Well Status: | ACTIVE Aquifer: SHALE |

REMARKS:

2650-645 7TH AVE SW, CALGARY AB, T2P 4G8. WELL CAPPED TO PREVENT FLOWING CONDITIONS. TO BE ABANDONED/ SEALED. USAGE IS MINERAL EXPLORATION, REPORT INDICATES THIS TEST WELL IS SEALED HOWEVER NO SEALING INFORMATION HAS BEEN PROVIDED - WELL REMAINS WITH AN ACTIVE STATUS. MOC:DROT,OTHR:RC;

| WELL L | OG (Im | perial units) |
|--------|---------|------------------|
| From | To(ft.) | Log |
| 0.0 | 2 | ORGANICS |
| 2.0 | 6 | CLAY |
| 6.0 | 15 | BROWN TILL |
| 15.0 | 71 | GREY TILL |
| 71.0 | 73 | LIMESTONE RUBBLE |
| 73.0 | 115 | LIMESTONE |
| 115.0 | 127 | SHALE |
| 127.0 | 196 | SANDSTONE |
| 196.0 | 199 | SHALE |

| | | | Inside | Outside | Slot | | |
|--------|---------|--------------|-----------|----------|----------|--------|----------|
| From | To(ft) | Const.Method | Dia.(in) | Dia.(in) | Size(in) | Туре | Material |
| 0.0 | 120.0 | CASING | 8.0 | 8.5 | | WASHED | STEEL |
| 120.0 | 199.0 | OPEN HOLE | 7.9 | | | | |
| Top of | Casing: | 3.0 ft ab | ove groun | d | | | |



Well PID: 199972

| Location: | NW30-9-8E |
|-----------------|--|
| UTMX:680047.8 | UTMY:5517258.2 XY Accuracy:1 EXACT [<5M] [GPS] |
| UTMZ:278 | Z Accuracy:4 FAIR - Shuttle at Centroid |
| Owner: | HD MINERALS |
| Driller: | Friesen Drillers Ltd. |
| Well Name: | BRU 126-1/BH 11-18/BRU GRP 6 |
| Date Completed: | 2018 Sep 29 |
| Well Use: | TEST WELL |
| WATER USE: | Other |
| Well Status: | SEALED Aquifer: LIMESTONE AND SANDSTONE |
| | |

REMARKS:

WITN:002453; #2650, 645 - 7TH AVENUE SW, CALGARY AB, T2P 4G8. MINERAL EXPLORATION / SAMPLING. WELL WAS SEALED AFTER SAMPLING USING ALTERNATING LAYERS OF BENTONITE HOLE PLUG AND WASHED PEA GRAVEL. WELL CASING WAS PULLED OUT AS PART OF WELL SEALING. MOV:OTHR:RC.

| WELL LOG (| Imperial units) |
|-------------|--|
| From To(ft. |) Log |
| 0.0 19 | BROWN FINE SAND |
| 19.0 23 | BROWN TILL |
| 23.0 65 | GREY TILL |
| 65.0 76 | BROWN GRAVEL |
| 76.0 110 | GREY TILL |
| 110.0 140 | GREY SAND WITH SOME GRAVEL |
| 140.0 177 | BROWN LIMESTONE |
| 177.0 187 | GREEN SHALE |
| 187.0 247 | WHITE SANDSTONE |
| 247.0 252 | WHITE, GREEN SANDSTONE WITH SHALE LAYERS |
| 252.0 259 | GREEN SHALE |

| | | | Inside | Outside | Slot | | |
|--------|---------|--------------|------------|----------|----------|--------|----------|
| From | To(ft) | Const.Method | Dia.(in) | Dia.(in) | Size(in) | Туре | Material |
| 0.0 | 141.0 | CASING | 8.0 | 8.6 | | WELDED | STEEL |
| 141.0 | 178.0 | OPEN HOLE | | 7.9 | | | |
| 178.0 | 259.0 | OPEN HOLE | | 6.0 | | | |
| Top of | Casing: | 0.0 ft ab | ove ground | d | | | |
| | | | | | | | |
| WELL S | EALED | | | | | | |
| Sealed | Date: | 2018-Sep-2 | 9 | | | | |
| Sealed | By: | FRIESEN DR | ILLERS LT | D | | | |
| Sealed | Type: | CONTRACTOR | - DRILLE | R | | | |



| | | Outside | Sealed |
|-------|--------|----------|------------|
| From | To(ft) | Dia.(in) | Material |
| 0.0 | 60.0 | | BENTONITE |
| 60.0 | 85.0 | | PEA GRAVEL |
| 85.0 | 150.0 | | BENTONITE |
| 150.0 | 175.0 | | PEA GRAVEL |
| 175.0 | 259.0 | | BENTONITE |



Well PID: 199980

| Location: | NW9-10-8E |
|-----------------|--|
| UTMX:683247.3 | UTMY:5522328.3 XY Accuracy:1 EXACT [<5M] [GPS] |
| UTMZ:268 | Z Accuracy:4 FAIR - Shuttle at Centroid |
| Owner: | HD MINERALS |
| Driller: | Friesen Drillers Ltd. |
| Well Name: | BRU 73-1/BH 10-18/ BRU GRP 3 |
| Date Completed: | 2018 Oct 11 |
| Well Use: | TEST WELL |
| WATER USE: | Other |
| Well Status: | SEALED Aquifer: LIMESTONE AND SANDSTONE |

REMARKS :

WITN:002456; #2650, 645 - 7TH AVENUE SW, CALGARY AB, T2P 4G8. MINERAL EXPLORATION / SAMPLING. WELL WAS SEALED AFTER SAMPLING USING ALTERNATING LAYERS OF BENTONITE HOLE PLUG AND WASHED PEA GRAVEL. WELL CASING WAS PULLED OUT AS PART OF WELL SEALING. MOC:DROT,OTHR:RC.

| OG (Im | perial units) |
|---------|--|
| To(ft.) | Log |
| 2 | BLACK TOP SOIL |
| 20 | BROWN TILL |
| 87 | GREY TILL |
| 129 | PURPLE LIMESTONE |
| 135 | RED SHALE |
| 192 | WHITE SANDSTONE |
| 205 | WHITE, GREEN SANDSTONE WITH SHALE LAYERS |
| 210 | GREEN, RED SHALE |
| | To(ft.) 2 20 87 129 135 192 205 |

. . . .

WELL CONSTRUCTION

| | | | Inside | Outside | Slot | | |
|-----------|----------|-----------|-----------|----------|----------|--------|----------|
| From To | (ft) Con | st.Method | Dia.(in) | Dia.(in) | Size(in) | Туре | Material |
| 0.0 90 | .0 CAS | ING | 8.0 | 8.6 | | WELDED | STEEL |
| 90.0 13 | 0.0 OPE | N HOLE | | 7.9 | | | |
| 130.0 21 | 0.0 OPE | N HOLE | | 6.0 | | | |
| Top of Ca | sing: 0 | .0 ft abo | ve ground | l | | | |

o

....

| 2018-Oct-11 | |
|----------------------|--|
| FRIESEN DRILLERS LT | D |
| CONTRACTOR - DRILLER | R |
| Outside Sealed | |
| Dia.(in) Material | |
| BENTONITI | Ξ |
| | FRIESEN DRILLERS LTI CONTRACTOR - DRILLEN Outside Sealed |



| 25.0 | 55.0 | PEA GRAVEL |
|-------|-------|------------|
| 55.0 | 105.0 | BENTONITE |
| 105.0 | 130.0 | PEA GRAVEL |
| 130.0 | 210.0 | BENTONITE |
| | | |



Well PID: 203682

| Location: | SW19-10-8E |
|-----------------|--|
| UTMX:679946.3 | UTMY:5524073.3 XY Accuracy:1 EXACT [<5M] [GPS] |
| UTMZ:277 | Z Accuracy:4 FAIR - Shuttle at Centroid |
| Owner: | HD MINERALS |
| Driller: | Friesen Drillers Ltd. |
| Well Name: | BRU 82-8 BH 47-18 |
| Date Completed: | 2018 Dec 15 |
| Well Use: | OTHER |
| WATER USE: | Other |
| Well Status: | SEALED Aquifer: SANDSTONE |

REMARKS:

WITN:002410; WELL USE & WATER USE:MINERAL EXPLORATION. SEALING REMARKS: A CEMENT PLUG OF 11 FT(@146-157FT) WAS PLACED INSIDE THE CASING TO PERMANENTLY PREVENT VERTICAL MOVEMENT WITH A TREMIE LINE AS PER DRILLING REGULATION 1992 SPECIFICATION SECTION 7B.SEALING AT 164 FT-MECHANICAL PLUG MOC: ROTM

WELL LOG (Imperial units) From To(ft.) Log 0.0 85 BROWN TILL 85.0 LIMESTONE 161 161.0 171 SHALE 171.0 245 SANDSTONE 245.0 263 SHALE

| | | | Inside | Outside | Slot | | | |
|---------|---------|--------------|------------|----------|----------|----------|------------|--|
| From | To(ft) | Const.Method | Dia.(in) | Dia.(in) | Size(in) | Туре | Material | |
| 0.0 | 85.0 | CASING | 20.0 | | | WELDED | STEEL | |
| 0.0 | 115.0 | CASING | 16.0 | | | WELDED | STEEL | |
| 0.0 | 115.0 | ANNULAR FILL | | | | | CEMENT | |
| 0.0 | 170.0 | ANNULAR FILL | | | | | CEMENT | |
| 0.0 | 204.0 | CASING | 10.0 | | | WELDED | | |
| 85.0 | 263.0 | OPEN HOLE | 19.0 | | | | | |
| 204.0 | 245.0 | WELL SCREEN | 10.0 | | | SL. PIPE | STEEL | |
| 170.0 | 170.0 | ATTACHMENT | | | | | SHALE TRAP | |
| Top of | Casing: | 2.0 ft abo | ove ground | 1 | | | | |
| | | | | | | | | |
| WELL SE | EALED | | | | | | | |
| Sealed | Date: | 2020-Aug-23 | 3 | | | | | |
| Sealed | By: | CANWHITE SA | ANDS CORP | | | | | |
| Sealed | Type: | | | | | | | |
| | | | | | | | | |



Sealer Remarks: CASING CUT OFF AT 3 FT BGS. SEE REMARKS FOR MORE SEALING REMARKS.

| | | Outside | Sealed | | |
|-------|--------|----------|------------|--|--|
| From | To(ft) | Dia.(in) | Material | | |
| 0.0 | 4.0 | | CEMENT | | |
| 0.0 | 4.0 | | GRAVEL | | |
| 0.0 | 4.0 | | BACKFILL | | |
| 4.0 | 9.0 | | BENTONITE | | |
| 9.0 | 75.0 | | PEA GRAVEL | | |
| 75.0 | 80.0 | | BENTONITE | | |
| 80.0 | 141.0 | | PEA GRAVEL | | |
| 141.0 | 146.0 | | BENTONITE | | |
| 146.0 | 157.0 | | CEMENT | | |
| 157.0 | 164.0 | | BENTONITE | | |
| 164.0 | 164.0 | | OTHER | | |
| | | | | | |

Manitoba

2020 Oct 01 WELL INFORMATION REPORT

Well PID: 203691

| Location: | SW19-10-8E |
|-----------------|--|
| UTMX:679936.2 | UTMY:5524073 XY Accuracy:1 EXACT [<5M] [GPS] |
| Owner: | HD MINERALS |
| Driller: | Friesen Drillers Ltd. |
| Well Name: | BRU 82-6 BH 47-18 |
| Date Completed: | 2018 Nov 14 |
| Well Use: | OTHER |
| WATER USE: | Other |
| Well Status: | SEALED Aquifer: SANDSTONE |

REMARKS:

WITN:002476; PUMPING TEST AT HIGHER DISCHARGE RATES TO BE COMPLETED, WATER USE: PRODUCTION/SOURCE & MINERAL EXPLORATION, WATER USE: MINERAL EXPLORATION. MOC:DROT;

| WELL L | OG (Im | perial units) |
|--------|---------|--|
| From | To(ft.) | Log |
| 0.0 | 25 | BROWN TILL |
| 25.0 | 88 | GREY TILL WITH SOME GRAVEL AT 80 FEET |
| 88.0 | 161 | BROWN LIMESTONE |
| 161.0 | 170 | RED/GREEN SHALE |
| 170.0 | 245 | WHITE SANDSTONE |
| 245.0 | 253 | GREEN SHALE WITH SOME SANDSTONE LAYERS |

| | | | Inside | Outside | Slot | | |
|--------|---------|--------------|------------|----------|----------|--------|----------|
| From | To(ft) | Const.Method | Dia.(in) | Dia.(in) | Size(in) | Туре | Material |
| 0.0 | 98.0 | CASING | 15.5 | 16.0 | | WELDED | STEEL |
| 98.0 | 161.0 | OPEN HOLE | 15.0 | | | | |
| 0.0 | 174.0 | LINER | 12.0 | 12.8 | | WELDED | STEEL |
| 161.0 | 253.0 | BOREHOLE | 12.0 | | | | |
| 160.0 | 165.0 | WELL SCREEN | 10.0 | 10.6 | | WELDED | STEEL |
| 165.0 | 245.0 | WELL SCREEN | 10.0 | 10.6 | | | |
| 0.0 | 161.0 | SURFACE SEAL | | | | | CEMENT |
| 163.0 | 164.0 | ATTACHMENT | | | | | K PACKER |
| Top of | Casing: | 0.0 ft abo | ove ground | 1 | | | |

| WELL SEALED | WELL | SEALED |
|-------------|------|--------|
|-------------|------|--------|

| Sealed | Date: | 2020-Ju | in-23 | 3 | | | | |
|--------|----------|---------|-------|------|------|-----|---------------|------|
| Sealed | By: | FRIESEN | I DR | LLEE | RS I | JTI | э. | |
| Sealed | Type: | CONTRAC | TOR | - DI | SILI | EE | ર | |
| Sealer | Remarks: | CASING | CUT | OFF | AT | 2 | \mathbf{FT} | BGS. |
| | C | utside | | Sea | led | | | |



| From | To(ft) | Dia.(in) | Material |
|-------|--------|----------|------------|
| 0.0 | 40.0 | | BENTONITE |
| 40.0 | 65.0 | | PEA GRAVEL |
| 65.0 | 70.0 | | BENTONITE |
| 70.0 | 85.0 | | PEA GRAVEL |
| 85.0 | 90.0 | | BENTONITE |
| 90.0 | 105.0 | | PEA GRAVEL |
| 105.0 | 150.0 | | BENTONITE |
| 150.0 | 175.0 | | PEA GRAVEL |
| 175.0 | 190.0 | | BENTONITE |
| 190.0 | 230.0 | | PEA GRAVEL |
| 230.0 | 253.0 | | BENTONITE |
| | | | |



Well PID: 201401

| Location: | SE32-10-8E | | |
|-----------------|-----------------------|------------------|---------------------|
| UTMX:682214.9 | UTMY:5527623 XY Acc | uracy:1 EXACT [| <5M] [GPS] |
| UTMZ:276 | Z Acc | uracy:4 FAIR - S | Shuttle at Centroid |
| Owner: | HD MINERALS | | |
| Driller: | Friesen Drillers Ltd. | | |
| Well Name: | BRU 95-3 / BH 7-19 | | |
| Date Completed: | 2019 Jun 28 | | |
| Well Use: | RECHARGE/RETURN | | |
| WATER USE: | Other | | |
| Well Status: | SEALED | Aquifer: | SANDSTONE |

REMARKS:

WITN:002447; #2650, 645 - 7TH AVE SW, CALGARY, AB, T2P 4G8. WATER USE:MINERAL EXPLORATION. SEALING REMARKS: A CEMENT PLUG OF 14 FT WAS PLACED INSIDE THE CASING TO PERMANENTLY PREVENT VERTICAL MOVEMENT WITH A TREMIE LINE AS PER DRILLING REGULATION 1992 SPECIFICATION SECTION 7B. MOC:ROTM, DROT;

| WELL L | OG (Im | perial units) |
|--------|---------|---|
| From | To(ft.) | Log |
| 0.0 | 8 | BLACK FILL AND PEAT MOSS |
| 8.0 | 32 | GREY FINE SAND |
| 32.0 | 75 | GREY TILL |
| 75.0 | 122 | GREY TILL WITH GRAVEL AND BOULDERS |
| 122.0 | 151 | PINK LIMESTONE |
| 151.0 | 159 | RED SHALE |
| 159.0 | 217 | WHITE SANDSTONE |
| 217.0 | 226 | GREEN/WHITE SHALE WITH SANDSTONE LAYERS |
| 226.0 | 230 | GREEN SHALE |

WELL CONSTRUCTION

Inside Outside Slot

| From | To(ft) | Const.Method | Dia.(in) | Dia.(in) | Size(in) | Туре | Material |
|--------|---------|--------------|------------|----------|----------|--------|----------|
| 0.0 | 126.0 | CASING | 12.0 | 12.8 | | WELDED | STEEL |
| 0.0 | 178.0 | CASING | 8.0 | 8.6 | | WELDED | STEEL |
| 0.0 | 152.0 | ANNULAR FILL | 8.6 | 12.0 | | | CEMENT |
| 122.0 | 230.0 | OPEN HOLE | 11.8 | | | | |
| 178.0 | 220.0 | WELL SCREEN | 8.0 | 8.6 | | WELDED | STEEL |
| 152.0 | 152.0 | SHALE TRAP | | | | | |
| 157.0 | 157.0 | SHALE TRAP | | | | | |
| Top of | Casing: | 2.0 ft abo | ove ground | đ | | | |

WELL SEALED

2020 Oct 01

WELL INFORMATION REPORT



| Sealed | Date: | 2020-Aug-20 | 6 | | | | | | | |
|--------|----------|-------------|-------------|---------|-----------|-----|------|---------|----------|--|
| Sealed | By: | CANWHITE SA | ANDS CORP | | | | | | | |
| Sealed | Type: | | | | | | | | | |
| Sealer | Remarks: | CASING CUT | OFF AT 3 FT | BGS. SE | E REMARKS | FOR | MORE | SEALING | REMARKS. | |
| | | Outside | Sealed | | | | | | | |
| From | To(ft) | Dia.(in) | Material | | | | | | | |
| 0.0 | 4.0 | | CEMENT | | | | | | | |
| 0.0 | 4.0 | | GRAVEL | | | | | | | |
| 0.0 | 4.0 | | OTHER | | | | | | | |
| 4.0 | 9.0 | | BENTONITE | | | | | | | |
| 9.0 | 110.0 | | PEA GRAVEL | | | | | | | |
| 110.0 | 124.0 | | BENTONITE | | | | | | | |
| 124.0 | 138.0 | | CEMENT | | | | | | | |
| 138.0 | 146.0 | | BENTONITE | | | | | | | |
| 146.0 | 146.0 | | PEA GRAVEL | | | | | | | |
| | | | | | | | | | | |

.



Well PID: 201400

| Location: | SE32-10-8E | | |
|-----------------|--------------------------|---------------|---------------------|
| UTMX:682236.3 | UTMY:5527605.9 XY Accura | cy:1 EXACT [« | <5M] [GPS] |
| UTMZ:276 | Z Accura | CY:4 FAIR - S | Shuttle at Centroid |
| Owner: | HD MINERALS | | |
| Driller: | Friesen Drillers Ltd. | | |
| Well Name: | BRU 95-2 / BH 7-19 | | |
| Date Completed: | 2019 Jun 16 | | |
| Well Use: | RECHARGE/RETURN | | |
| Well Status: | SEALED | Aquifer: | SANDSTONE |

REMARKS:

WITN:002445; #2650, 645 - 7TH AVENUE SW, CALGARY, AB, T2P 4G8. SEALING REMARKS: A CEMENT PLUG OF 17 FT WAS PLACED INSIDE THE CASING TO PERMANENTLY PREVENT VERTICAL MOVEMENT WITH A TREMIE LINE AS PER DRILLING REGULATION 1992 SPECIFICATION SECTION 7B. MOC:ROTM, DROT;

| WELL LO | WELL LOG (Imperial units) | | | | |
|---------|---------------------------|---|--|--|--|
| From | To(ft.) | Log | | | |
| 0.0 | 5 | BLACK FILL AND PEAT MOSS | | | |
| 5.0 | 27 | GREY FINE SAND | | | |
| 27.0 | 85 | GREY TILL | | | |
| 85.0 | 117 | GREY TILL WITH GRAVEL AND BOULDERS | | | |
| 117.0 | 148 | PINK LIMESTONE | | | |
| 148.0 | 158 | RED SHALE | | | |
| 158.0 | 218 | WHITE SANDSTONE | | | |
| 218.0 | 226 | GREEN/WHITE SHALE WITH SANDSTONE LAYERS | | | |
| 226.0 | 230 | GREEN SHALE | | | |

WELL CONSTRUCTION

Inside Outside Slot

| 0.0 122.0 CASING 8.0 8.6 WELDED STEEL | |
|--|---|
| 0.0 178.0 CASING 6.0 6.6 WELDED STEEL | |
| 0.0 150.0 ANNULAR FILL 6.6 8.6 CEMENT | 2 |
| 178.0 220.0 WELL SCREEN 6.0 6.6 WELDED STEEL | |
| 122.0 230.0 OPEN HOLE 7.9 | |
| 150.0 150.0 SHALE TRAP | |
| 155.0 155.0 SHALE TRAP | |
| Top of Casing: 2.5 ft above ground | |

WELL SEALED Sealed Date: 2020-Aug-26

2020 Oct 01

WELL INFORMATION REPORT



| Sealed | By: | CANWHITE S | ANDS CORP | | | |
|--------|---------|--------------|------------------|-------------|----------|------------------|
| Sealed | Type: | | | | | |
| Sealer | Remarks | : CASING CUT | OFF AT 3 FT BGS. | SEE REMARKS | FOR MORE | SEALING REMARKS. |
| | | Outside | Sealed | | | |
| From | To(ft) | Dia.(in) | Material | | | |
| 0.0 | 4.0 | | CEMENT | | | |
| 0.0 | 4.0 | | GRAVEL | | | |
| 0.0 | 4.0 | | OTHER | | | |
| 4.0 | 9.0 | | BENTONITE | | | |
| 9.0 | 102.0 | | PEA GRAVEL | | | |
| 102.0 | 126.0 | | BENTONITE | | | |
| 126.0 | 143.0 | | CEMENT | | | |
| 143.0 | 149.0 | | BENTONITE | | | |
| 149.0 | 149.0 | | OTHER | | | |
| | | | | | | |



Well PID: 201399

| SE32-10-8E |
|---|
| UTMY:5527609.1 XY Accuracy:No Accuracy |
| Z Accuracy:4 FAIR - Shuttle at Centroid |
| HD MINERALS |
| Friesen Drillers Ltd. |
| BRU 95-1 / BH 7-19 |
| 2019 Jun 07 |
| OTHER |
| Other |
| SEALED Aquifer: SANDSTONE |
| |

REMARKS:

WITN:002446; #2650, 645 - 7TH AVE SW. WATER USE OTHER MINERAL EXPLORATION. SEALING REMARKS: A CEMENT PLUG OF 16 FT WAS PLACED INSIDE THE CASING TO PERMANENTLY PREVENT VIRTICAL MOVEMENT WITH A TREMIE LINE AS PER DRILLING REGULATION 1992 SPECIFICATION SECTION 7B. MOC:ROTM, DROT;

| WELL L | OG (Im | perial units) |
|--------|---------|-----------------------------------|
| From | To(ft.) | Log |
| 0.0 | 5 | BLACK FILL AND PEAT |
| 5.0 | 28 | BLACK FINE SAND |
| 28.0 | 90 | GREY TILL |
| 90.0 | 118 | GREY TILL WITH BOULDERS |
| 118.0 | 148 | BROWN LIMESTONE |
| 148.0 | 153 | RED SHALE |
| 153.0 | 218 | WHITE SANDSTONE |
| 218.0 | 228 | GREEN SHALE WITH SANDSTONE LAYERS |

WELL CONSTRUCTION

| | | | Inside | Outside | Slot | | |
|--------|---------|--------------|------------|----------|----------|--------|----------|
| From | To(ft) | Const.Method | Dia.(in) | Dia.(in) | Size(in) | Туре | Material |
| 0.0 | 122.0 | CASING | 15.3 | 16.0 | | WELDED | STEEL |
| 0.0 | 175.0 | CASING | 12.0 | 12.8 | | WELDED | STEEL |
| 0.0 | 151.0 | SURFACE SEAL | | | | | CEMENT |
| 122.0 | 238.0 | OPEN HOLE | 15.0 | | | | |
| 175.0 | 178.0 | LINER | 12.0 | 12.8 | | | |
| 178.0 | 218.0 | WELL SCREEN | 12.0 | 12.8 | | WELDED | STEEL |
| 151.0 | 151.0 | SHALE TRAP | | | | | |
| 156.0 | 156.0 | SHALE TRAP | | | | | |
| Top of | Casing: | 2.5 ft abo | ove ground | đ | | | |

WELL SEALED

2020 Oct 01

WELL INFORMATION REPORT



| Sealed | Date: | 2020-Ai | 1g-2 | 5 | | | | | | | | | | | | |
|--------|----------|----------|-------|------|-------|-----|-----|----|------|-----|---------|-----|------|-------|----|--|
| Sealed | By: | CANWHIT | TE SA | ANDS | CORI | 2 | | | | | | | | | | |
| Sealed | Type: | | | | | | | | (a.) | | | | | | | |
| Sealer | Remarks: | CASING | WAS | CUT | OFF | AT | 3 I | FT | BGS. | SEE | REMARKS | FOR | MORE | SEALI | NG | |
| | | REMARKS. | | | | | | | | | | | | | | |
| | | Outside | | Seal | led | | | | | | | | | | | |
| From | To(ft) | Dia.(in) | | Mate | eria | L | | | | | | | | | | |
| 0.0 | 4.0 | | | CEME | ENT | | | | | | | | | | | |
| 0.0 | 4.0 | | | GRAV | /EL | | | | | | | | | | | |
| 0.0 | 4.0 | | | OTHE | ER | | | | | | | | | | | |
| 4.0 | 9.0 | | | BENT | CONIT | ſΈ | | | | | | | | | | |
| 9.0 | 110.0 | | | PEA | GRAV | /EL | | | | | | | | | | |
| 110.0 | 120.0 | | | BENT | CONIT | ſΕ | | | | | | | | | | |
| 120.0 | 125.0 | | | PEA | GRAV | /EL | | | | | | | | | | |
| 125.0 | 127.0 | | | BENT | CONIT | ΓE | | | | | | | | | | |
| 127.0 | 142.0 | | | CEME | ENT | | | | | | | | | | | |
| 143.0 | 149.0 | | | BENT | CONIT | ſΈ | | | | | | | | | | |
| 149.0 | 149.0 | | | OTHE | ER | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |



Well PID: 201159

| Location: | SE32-10-8E | | | |
|-----------------|--------------------------|----------------|------------|----------|
| UTMX:682231.3 | UTMY:5527624.7 XY Accura | acy:1 EXACT [- | <5M] [GPS] | |
| UTMZ:276 | Z Accur | acy:4 FAIR - S | Shuttle at | Centroid |
| Owner: | HD MINERALS | | | |
| Driller: | Friesen Drillers Ltd. | | | |
| Well Name: | | | | |
| Date Completed: | 2019 Jul 02 | | | |
| Well Use: | RECHARGE/RETURN | | | |
| WATER USE: | Other | | | |
| Well Status: | ACTIVE | Aquifer: | SANDSTON | E |

REMARKS:

WITN:002521; 2650, 645 - 7TH AVE SW, CALGARY, AB, T2P 4G8. WATER USE OTHER - MINERAL EXPLORATION. MOC:ROTM;

| WELL LO | OG (Im | perial units) | | | | |
|---------|---------|---------------------|--|--|--|--|
| From | To(ft.) | Log | | | | |
| 0.0 | 5 | BLACK FILL AND PEAT | | | | |
| 5.0 | 22 | SAND | | | | |
| 22.0 | 81 | GREY TILL | | | | |
| 81.0 | 128 | SAND AND BOULDERS | | | | |
| 128.0 | 148 | LIMESTONE | | | | |
| 148.0 | 162 | RED SHALE | | | | |
| 162.0 | 178 | WHITE SANDSTONE | | | | |

WELL CONSTRUCTION

| | | | Inside | Outside | Slot | | |
|--------|---------|--------------|------------|----------|----------|--------|-----------------|
| From | To(ft) | Const.Method | Dia.(in) | Dia.(in) | Size(in) | Туре | Material |
| 0.0 | 120.0 | BOREHOLE | | 7.9 | | | |
| 0.0 | 120.0 | CASING | 5.0 | 5.5 | | INSERT | PVC |
| 0.0 | 120.0 | SURFACE SEAL | 5.5 | 7.9 | | | BENTONITE |
| 0.0 | 162.0 | LINER | 2.0 | 2.4 | | INSERT | PVC |
| 120.0 | 148.0 | OPEN HOLE | | 4.8 | | | |
| 162.0 | 172.0 | WELL SCREEN | 2.0 | 2.4 | | | STAINLESS STEEL |
| Top of | Casing: | 2.0 ft abo | ove ground | 3 | | | |
| | | | | | | | |

PUMPING TEST

Date : 2019 Jul 02 Pumping Imp. gallons/minute Water level before test : 23.0 ft below ground Water level at end of test : Test duration: Date : 2019 Jul 02 Pumping Imp. gallons/minute Water level before test : 27.0 ft below ground



Water level at end of test : Test duration:



Well PID: 201398

| Location: | SE32-10-8E | | | | | | |
|-----------------|--------------------------|---------------|-------------|-------------|--|--|--|
| UTMX:682210.3 | UTMY:5527629.5 XY Accura | cy:1 EXACT [< | 5M] [GPS] | | | | |
| UTMZ:276 | Z Accura | cy:4 FAIR - S | huttle at (| Centroid | | | |
| Owner: | HD MINERALS | | | | | | |
| Driller: | Friesen Drillers Ltd. | | | | | | |
| Well Name: | BRU 95-5 | | | | | | |
| Date Completed: | 2019 Jun 26 | | | | | | |
| Well Use: | PRODUCTION/SOURCE | | | | | | |
| WATER USE: | COMM/INDUST | | | | | | |
| Well Status: | ACTIVE | Aquifer: | LIMESTONE | OR DOLOMITE | | | |

REMARKS:

WITN:002444; #2650, 645 - 7TH AVE SW, CALGARY, AB, T2P 4G8. MOC:ROTM; Q: 60 IGPM PI: 90 FT.

| WELL L | OG (Im | perial units) |
|--------|---------|------------------------------------|
| From | To(ft.) | Log |
| 0.0 | 5 | BLACK FILL AND PEAT MOSS |
| 5.0 | 20 | GREY FINE SAND |
| 20.0 | 42 | GREY CLAY |
| 42.0 | 75 | GREY TILL |
| 75.0 | 119 | PINK TILL WITH GRAVEL AND BOULDERS |
| 119.0 | 138 | RED LIMESTONE |

WELL CONSTRUCTION

| | | | Inside | Outside | Slot | | |
|----------|---------|--------------|-----------|----------|----------|--------|-----------|
| From | To(ft) | Const.Method | Dia.(in) | Dia.(in) | Size(in) | Туре | Material |
| 0.0 | 121.0 | BOREHOLE | | 7.9 | | | |
| 0.0 | 121.0 | CASING | 5.0 | 5.5 | | INSERT | PVC |
| 0.0 | 120.0 | SURFACE SEAL | 5.5 | 8.0 | | | BENTONITE |
| 0.0 | 12.0 | CASING | 8.0 | 8.6 | | WELDED | STEEL |
| 121.0 | 138.0 | OPEN HOLE | | 4.8 | | | |
| Top of (| Casing: | 2.5 ft abo | ve ground | 1 | | | |

PUMPING TESTDate : 2019 Jun 26Pumping 23.0 Imp. gallons/minuteWater level before test: 40.0 ft below groundWater level at end of test: 60.0 ft below groundTest duration:1:00:00Test Zone: from 121.0 ftto 138.0 ft