

TEXAS WATER COMMISSION

WELL SCHEDULE

Aquifer Hensell

Field No. \_\_\_\_\_  
Owner's Well No. WU#1

State Well No. 40-37-801  
County McLennan Co.

- Location: 1/4, 1/4 Sec., Block \_\_\_\_\_ Survey \_\_\_\_\_  
Rocketdyne Plant SW of McGregor
- Owner: NORTH AMERICAN ROCKWELL CORP Address: McGregor, Texas  
Tenant: Rocketdyne Corp Address: McGregor, Texas  
Driller: Layne - Texaco Address: Hous ton
- Elevation of ground level is 744 ft. above msl, determined by leveling
- Drilled: 1947; Dug, Cable Tool, Rotary
- Depth: Rept. 1190 ft. Meas. \_\_\_\_\_ ft.
- Completion: Open Hole, Straight Wall, Underreamed, Gravel Packed
- Pump: Mfr. Layne Type Turbine  
No. Stages 19, Bore Dia. \_\_\_\_\_ in., Setting 610 ft.  
Column Dia. \_\_\_\_\_ in., Length Tailpipe 6 ft.
- Motor: Fuel Eke (aux. and) Make & Model US HP. 100
- Yield: Flow \_\_\_\_\_ gpm, Pump 300 gpm, Meas., Rept., Est. 2-24-65
- Performance Test: Date 2-24-65 Length of Test \_\_\_\_\_ Made by Rimlinger  
Static Level 410 ft. Pumping Level 610 ft. Drawdown \_\_\_\_\_ ft.  
Production 300 gpm Specific Capacity 16 gpm/ft.

|  |  |  |  |
|--|--|--|--|
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

| CASING & BLANK PIPE                  |             |              |              |
|--------------------------------------|-------------|--------------|--------------|
| Cemented From _____ ft. to _____ ft. |             | Setting, ft. |              |
| Diam. (in.)                          | Type        | from         | to           |
| <u>10 3/4</u>                        | <u>O.D.</u> | <u>0'</u>    | <u>971'</u>  |
| <u>8 5/8</u>                         | <u>O.D.</u> | <u>971'</u>  | <u>1141'</u> |

- Water Level: -175 ft. 6-19-42 above ground level which is \_\_\_\_\_ ft. above/below surface.  
282 ft. 1949 above 15d which is \_\_\_\_\_ ft. above/below surface.  
410 ft. 2-24-1965 above 15d which is \_\_\_\_\_ ft. above/below surface.  
ft. rept. 19 above/below which is \_\_\_\_\_ ft. above/below surface.

12. Use: Dom., Stock, Public Supply, Ind., Irr., Waterflood, Observation, Not Used,

Quality: (Remarks on taste, odor, color, etc.) 5-25-45 TSHD; 6-5-42 TSHD;

- Temp. 86 °F, Date sampled for analysis no sample Laboratory U.S.G.S.
- Temp. \_\_\_\_\_ °F, Date sampled for analysis 11-1-61 Laboratory TSHD
- Temp. \_\_\_\_\_ °F, Date sampled for analysis 1-17-56 Laboratory TSHD

14. Other data available as circled: Driller's Log, Radioactivity Log, Electric Log,

Formation Samples Pumping Test,

15. Record by: A.R. Smith Date 4-30 1965

Source of Data Rocketdyne officials & U.S.G.S. Schedule

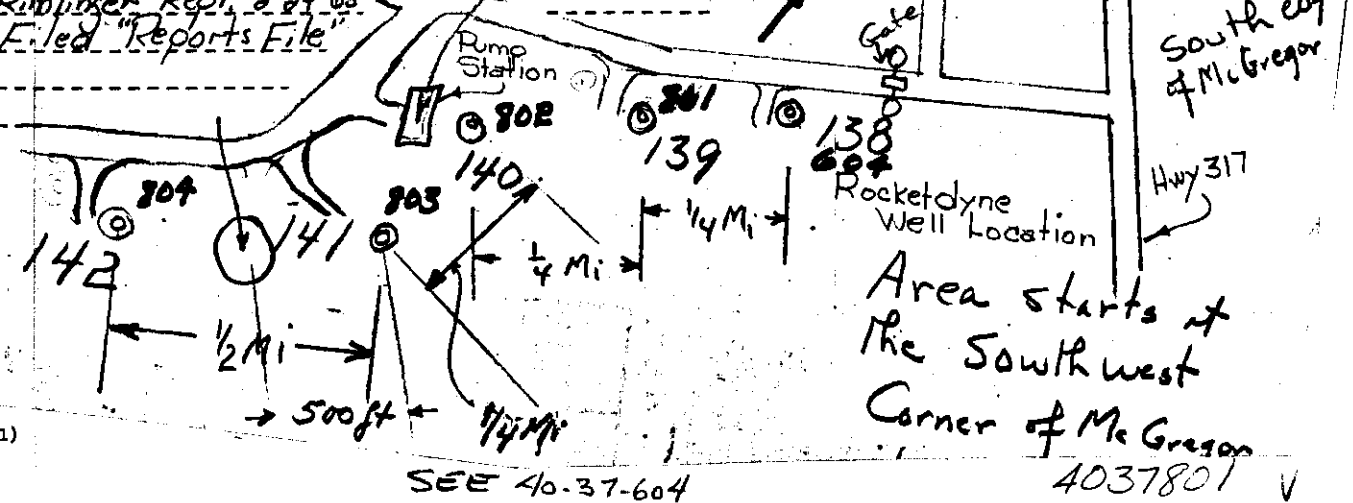
16. Remarks: See U.S.G.S. 1949 Schedule

Top Trinity 971 (Rimlinger)

Rimlinger Rept. 2-24-65

Filed "Reports File"

| WELL SCREEN     |           |              |              |
|-----------------|-----------|--------------|--------------|
| Screen Openings |           | Setting, ft. |              |
| Diam. (in.)     | Type      | from         | to           |
| <u>8 5/8</u>    | <u>OD</u> | <u>971'</u>  | <u>1034'</u> |



Area starts at the Southwest Corner of McGregor  
4037801

| Driller's Log       |           |                     |             |
|---------------------|-----------|---------------------|-------------|
| Rock & white lime   | 0 - 7     | Gray lime & shale   | 569 - 602   |
| Line, shell & clay  | 7 - 20    | Light gray sdy lime | 602 - 635   |
| Blue gray lime      | 20 - 32   | Broken sand         | 635 - 651   |
| Gray lime & shale   | 32 - 120  | Gray sdy lime       | 651 - 700   |
| Dark & white lime   | 120 - 125 | Soft shell lime     | 700 - 718   |
| Hard white lime     | 125 - 142 | Light sdy lime-     | 718 - 752   |
| Dark white lime     | 142 - 148 | soft shell          |             |
| Hard gray lime      | 148 - 187 | Hard sdy lime       | 752 - 798   |
| Gray lime & sh.     | 187 - 210 | Hard lime & shale   | 798 - 812   |
| Hard gray lime      | 210 - 248 | Gray sandy lime     | 812 - 830   |
| White lime & sh.    | 248 - 257 | Gray sh & lime      | 830 - 910   |
| Dark gray sh & lime | 257 - 285 | Gray sdy shale      | 910 - 921   |
| Blue shale & brks.  | 285 - 321 | Hard gray lime      | 921 - 927   |
| of lime             |           | Gray sh & lime      | 927 - 946   |
| Hard gray lime      | 321 - 335 | Hard gray lime      | 946 - 966   |
| Blue shale & lime   | 335 - 344 | Green shale         | 966 - 971   |
| Hard gray lime      | 344 - 371 | 1st Trinity water   | 971 - 1022  |
| Blue shale & lime   | 371 - 393 | sand                |             |
| shells              |           | Sandy shale         | 1022 - 1047 |
| Hard lime & shells  | 393 - 440 | Gray sdy lime       | 1047 - 1065 |
| Gray sandy lime     | 440 - 468 | Fine sdy lime       | 1065 - 1078 |
| White sh & gray     | 468 - 503 | Gray lime           | 1078 - 1089 |
| Lime                |           | Dark sdy lime       | 1089 - 1113 |
| Blue sh & lime      | 503 - 510 | Dark cave sh & lime | 1113 - 1190 |
| Gray sdy lime       | 510 - 561 |                     |             |
| Dark gray sh & lime | 561 - 569 |                     |             |

40-37-801

Chem analysis 11-1-61  
SiO<sub>2</sub> - CO<sub>2</sub> - 0  
Ca - 5 HCO<sub>3</sub> - 461  
Mg - 1 SO<sub>4</sub> - 107  
Na - 274 Cl - 62  
Fe - 0.08 F - 1.2  
Mn - 0.05 NO<sub>3</sub> - <0.4  
pH - 8.3 Hardness - 16  
TDS - 699 sp. c @ 25°C - 1165

LOG OF WELL FOR Bluebonnet Ordnance Plant

WELL LOCATED AT: McGregor, McLennan County, Texas

Date Well Started: April 18, 1942

- Date Well Completed: June 7, 1942

#139  
 Well No. ~~139~~  
 ST-4037801

| Depth of Each | Strata | Stratum | Formation                     |          |         | Material Setting   |
|---------------|--------|---------|-------------------------------|----------|---------|--|
| 7             | 7      |         | Rock & white lime             | 973' 3"  | 973' 3" | 10-3/4" O.D. 32.75# Lapweld Casing                                     |
| 20            | 13     |         | Lime, shell & clay            |          |         | Height above ground surface  |
| 32            | 12     |         | Blue gray lime                | 2' 3"    |         | Depth of casing below surface  |
| 120           | 88     |         | Gray lime & shale             | 971' 0"  |         | 8" x 10" Lead Seal with 1" Pin   |
| 125           | 5      |         | Dark & white lime             |          |         | Lap of 8" Liner in 10" Casing  |
| 142           | 17     |         | Hard white lime               | 20' 0"   |         | To top of 8" Liner   |
| 148           | 6      |         | Dark white lime               | 951' 0"  |         | 8-5/8" O.D. 29.35# Blank Line Pipe                                     |
| 187           | 39     |         | Hard Gray Lime                | 971' 0"  | 20' 0"  | 8-5/8" O.D. Galv. Keystones  |
| 210           | 23     |         | Gray lime & shale             |          |         | W.W. Screen .021 Ga.   |
| 248           | 38     |         | Hard gray lime                | 1034' 0" | 63' 0"  | 8-5/8" O.D. 29.35# Bl. Pipe  |
| 257           | 9      |         | White lime & shale            |          |         | 8-5/8" O.D. Set Nipple, B.P.   |
| 285           | 28     |         | Dark gray shale & Lime        | 1140' 0" | 106' 0" | Valve in 8" Coupling, 6 Ft. of 20" O.D. Surface Casing set at Surface. |
|               |        |         |                               | 1141' 0" | 1' 0"   |  |
| 321           | 36     |         | Blue shale & Brks. of lime    |          |         |  |
| 335           | 14     |         | Hard gray lime                |          |         |  |
| 344           | 9      |         | Blue shale & lime             |          |         |  |
| 371           | 27     |         | Hard gray lime                |          |         |  |
| 393           | 22     |         | Blue shale & lime shells      |          |         |  |
| 440           | 47     |         | Hard lime & shells            |          |         |  |
| 468           | 28     |         | Gray sandy lime               |          |         |  |
| 503           | 35     |         | White shale & gray lime       |          |         |  |
| 510           | 7      |         | Blue shale & lime             |          |         |  |
| 561           | 51     |         | Gray sandy lime               |          |         |  |
| 569           | 8      |         | Dark gray shale & lime        |          |         |  |
| 602           | 33     |         | Gray lime & shale             |          |         |  |
| 635           | 33     |         | Light gray sandy lime         |          |         |  |
| 651           | 16     |         | Broken Sand                   |          |         |  |
| 700           | 49     |         | Gray sandy lime               |          |         |  |
| 718           | 18     |         | Soft shell lime               |          |         |  |
| 752           | 34     |         | Light sandy lime - soft shell |          |         |  |
| 798           | 46     |         | Hard sandy lime               |          |         |  |
| 812           | 14     |         | Hard lime & shale             |          |         |  |
| 830           | 18     |         | Gray sandy lime               |          |         |  |
| 910           | 80     |         | Gray shale & lime             |          |         |  |
| 921           | 11     |         | Gray sandy shale              |          |         |  |
| 927           | 6      |         | Hard gray lime                | 1078     | 13      | Fine sandy lime  |
| 946           | 19     |         | Gray shale & lime             | 1089     | 11      | Gray lime  |
| 966           | 20     |         | Hard gray lime                | 1113     | 24      | Dark sandy lime  |
| 971           | 5      |         | Green shale                   | 1190     | 77      | Dark cave shale & lime   |
| 1022          | 51     |         | 1st Trinity Water-Sand        |          |         |  |
| 1047          | 25     |         | Sandy shale                   |          |         |  |
| 1065          | 18     |         | Gray sandy lime               |          |         |  |

**WELL DATA:** Bottom of hole was filled 50' with rock before setting 8" liner. Large 10" casing was cemented with 550 sacks of Portland cement to the surface by the plug method. Straight type well. Halliburton service used.

**PERMANENT TEST:** Date tested: June 4, 1942  
 Static Level 175  
 Production 340 GPM  
 Drawdown 216  
 Pumping Level 391  
 Spec. Capacity 1.6 Gal./Ft.

**PUMP DATA:** Shop No. 11824, Type Lubr. Solenoid (Oil), Type Head TF618, Size Suction 6", Depth Setting 400', Size Column 6"x 1 1/2"x 2 1/2", Length Suction 10', Type Bowl 10" RKLC, Length Air Line 400', No. Stages 10, RPM 1750, 6" Outlet & 6" Strainer. #3965 Johnson Right Angle Comb. Gear Drive, 1:1 ratio, International U-21 engine.

**MOTOR DATA:** HP 50, Voltage 208, RPM 1800, Phase 3, Type VHS, Cycles 60, Make G. E., Frame No. N6305

LAYNE TEXAS COMPANY, LTD.  
 DRILLER: Frank Keeley

1065-1190 on big sheet