

Shawver Well Company, Inc.

2700 Stanley Avenue
Fredericksburg, IA 50630

(563) 237-5341
(800) 568-4449

Location of Well

1362 200th St
Duncombe, IA 50532
T89N R27W

County **Webster**
Township **Colfax**
Section **7**
Quarters **NENENENENE**

Customer Information

Koch Nitrogen
Koch Nitrogen
1362 200th St
Duncombe, IA 50532

Contact Date **12/5/2008**
Confirmation Date

Contact Information

Home Ph: Best time to call:
Work Ph: Email:
Cell Ph: Customer since: **12/5/2008**
Fax: Referred By:

Job Information

Area **CM** Confirmation
T89N R27W Start Date **9/29/2008**
Latitude **42.50043** End Date **11/17/2008**
Longitude **90.01294**
PWTS # **2138329** Warranty Date
Permit Number **29200** Warranty

Well Site Information

Actual Size **16" - 12"** Pump Inst ☐ Liner ☒ ft
Depth **1814'** Sulfide ☐ Screen--
Elevation SWL **219'** # Water Tests: Iron
RPS PH
Max GPM **2500** Nitrate
Air Lift **1814'#2500GPM,** Made Water **See Below**
1773'@2500 GPM Screen Size
Exploratory -- To Ft Slot Size
Mock Rock -- Acidize -- Riser Pipe
Well Use Set From
Perforated From
Tail Pipe
Drive Time Hours
Hotel Expenses
Fuel Costs
Rig **007 - 2007 50K**
Driller **Dave Halweg; Cert #: 2814**
Driller 2 **Justin, Dave Steveneson, Dave**
Solem,

Description:
' (Keith, Gary M, Mark M, Dale, Wayne also assisted in drilling. Made water 391' (20gpm), 561' (100gpm), 709' (30gpm), 833'-858'(100gpm), 1278'-1298'(150gpm),'-1603'(75gpm), 1648'-1674'(1200gpm), 1690' (500gpm), 1748'-1788' (150gpm), 1788' (550gpm). 1016' Liner

Remarks:

Well Formation Log

From-To	Color	Formation
0 - 3	Black	Topsoil - Sandy Clay
3 - 34	Blue	Clay - Soft
34 - 36		Sand - Medium
36 - 45	Blue	Clay
45 - 72	Blue	Clay - Gravelly
72 - 102		Pea Rock
102 - 168	Blue	Clay - Gravel Rock
168 - 172		Sand - Medium
172 - 179	Blue	Clay
179 - 182		Sand - Fine
182 - 184	Blue	Clay
184 - 186	Brown	Limerock
186 - 192	Cream	Limerock - Broken
192 - 194	White	Shale
194 - 201	Blue	Shale
201 - 213	White	Shale - Limerock - Streaks
213 - 215	Gray	Shale
215 - 216	Brown - Cream	Limerock
216 - 222	Brown - Yellow	Limerock - Shale - Streaks
222 - 224	Gray	Limerock - Shale - Streaks
224 - 225	Dark Brown	Limerock
225 - 227	Dark Brown	Limerock
227 - 256	Brown - Cream	Limerock
256 - 276	Gray	Limerock

Bore Log

From-To	Bit Size - Number
0 - 225	23" Hole Opener
225 - 606	19"
606 - 1595	15"
1595 - 1814	9 7/8"

Well Casing Log

From-To	Casing
0 - 606	16" OD x .375
0 - 225	20" x .375" Steel
1 - 0	16" OD x .375
2 - 0	20" x .375" Steel
579 - 1595	10" x Steel

Screen Size
Slot Size Set From
Riser Pipe Tail Pipe

Well Grout Used

Amount	Type
1332 sacks	Neat Cement
6 sacks	Holeplug
9 sacks	EZ Seal
6 sacks	Casing Seal
110 sacks	Polarset
260 sacks	Quick Gel
30 sacks	Easy Mud Gold
85 sacks	Quick Trol LV

276 - 278	Gray	Limerock - Shale
278 - 289	Gray	Shale - Soft
289 - 293	Gray	Limerock
293 - 331	Cream	Limerock
331 - 390	Brown	Limerock
390 - 391	Blue	Shale - Limerock
391 - 425	Brown	Limerock
425 - 428		Limerock
428 - 446	Brown	Limerock
446 - 453	Brown - Gray	Limerock
453 - 509	Gray	Limerock
509 - 515	Gray - Brown	Limerock
515 - 536	Gray	Limerock
536 - 561	Brown	Limerock
561 - 594	Gray - Blue	Shale
594 - 595	Brown	Limerock - Shale
595 - 598	Brown	Limerock
598 - 608	Gray - Cream	Limerock
608 - 642	Brown - Gray	Limerock
642 - 661	Gray- Blue- Green	Limerock
661 - 708	Gray	Limerock - Sand Streaks
708 - 733	Tan - Brown	Limerock
733 - 756	Brown - Gray	Limerock - Shale Seams
756 - 758		Shale - Soft
758 - 768	Gray	Shale - Rock
768 - 783	Brown	Limerock - Quartz Streaks
783 - 808	Brown - Gray	Limerock
808 - 818	Brown - Gray	Limerock
818 - 833	Brown - Gray	Limerock
833 - 858	Brown - Gray	Limerock
858 - 900	Brown - Gray	Limerock
900 - 950	Brown	Limerock
950 - 975	Gray - Brown	Limerock - Shale - Streaks
975 - 984	Cream	Limerock
984 - 1030	Brown - Gray	Limerock
1030 - 1058	Cream	Limerock
1058 - 1095	Gray - Cream	Limerock
1095 - 1183	Brown - Gray	Limerock
1183 - 1208	Brown	Limerock
1208 - 1233	Brown	Limerock
1233 - 1250	Brown	Limerock
1250 - 1258	Lt. Brown	Limerock
1258 - 1358	Lt. Brown	Limerock
1358 - 1382	Brown - Gray	Limerock
1382 - 1398	Gray	Shale
1398 - 1443	Brown - Gray	Limerock
1443 - 1458	Blue	Shale - Soft
1458 - 1485	Blue	Shale

1534 - 1542		Sandstone - St. Pete
1542 - 1616	Gray - Brown	Limerock
1616 - 1618	Blue - Green	Shale - Firm
1618 - 1643	Gray - Brown	Limerock - Sandstone
1643 - 1688	Brown	Limerock - Porous
1688 - 1753	Brown - Gray	Limerock - Firm
1753 - 1795	Brown - Gray	Limerock - Porous
1795 - 1814	Gray	Limerock