

PG&E AGRICULTURAL SERVICES
PUMP TEST REPORT

PG&E PLANT ID: 56862
TEST BY: MIKE BOLEN
H.P.: 00.0
MOTOR MAKE:
LOCATION:

TEST DATE: 09/07/93
PUMP MAKE: FLOWAY
PUMP TYPE: Tecdrive

CUSTOMER MAILING ADDRESS
SHAMBA INC
ATTN: GEORGE
P O BOX 99
TEHAMA, CA 96090

ACCOUNT INFORMATION
ACCOUNT NO. HFN N1-00971
CONTROL NO. 6065933-7-CF
METER NO. 42427407
ENERGY USAGE: 8983 FWH/YR
ENERGY COST: 30.31 CENTS/KWH
ANN ACCT ENERGY USE: 8983 KWH

-----TEST RESULTS-----

RUN NUMBER	
	1
STANDING WATER LEVEL (FT)	46.4
DRAWDOWN (FT)	29.6
PUMPING WATER LEVEL (FT)	76.0
DISCHARGE LEVEL (FT)	7.6
DISCHARGE PRESSURE AT GAUGE (PSI)	3.3
TOTAL LIFT (FT)	83.6
PG&E WATER FLOW RATE (GPM)	2567
CUSTOMER WATER FLOW RATE (GPM)	-
WELL YIELD	86.7
ACRE FEET PER 24 HOURS	11.3
HORSEPOWER INPUT TO MOTOR	-
PERCENT OF RATED MOTOR LOAD	-
KILOWATT INPUT TO MOTOR	-
KILOWATT HOURS PER ACRE-FOOT	-
OVERALL PLANT EFFICIENCY	-

-----TEST REMARKS-----

TRIPPLICATE
Owner's Copy

STATE OF CALIFORNIA
WELL COMPLETION REPORT
Refer to Instruction Pamphlet

DWR USE ONLY - DO NOT FILL IN

STATE WELL NO / STATION NO.

LATITUDE LONGITUDE

APN/TRS/OTHER

Page 1 of 2
Owner's Well No. Well by Canal No. **406399**
Date Work Began 4-26-93, Ended 5-03-93
Local Permit Agency Tehama
Permit No. _____ Permit Date _____

ORIENTATION (∠) <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> HORIZONTAL <input type="checkbox"/> ANGLE _____ (SPECIFY)		
DEPTH TO FIRST WATER _____ (Ft.) BELOW SURFACE		
DESCRIPTION		
Describe material, grain size, color, etc.		
DEPTH FROM SURFACE		
Ft.	to Ft.	
0	2	Topsoil
2	20	Yellow clay
20	35	Gravel
35	44	Gravelly Yellow clay
44	50	Gravel
50	56	Yellow clay
56	70	Gravel
70	93	Yellow clay
93	107	Gravel (1)
107	125	Yellow clay
125	162	Gravel Big (2)
162	168	Clay
168	178	Gravel (3)
178	181	Clay
181	197	Gravel Big (4)
197	202	Brown clay
202	209	Gravel (5)
209	212	Brown clay
212	227	Gravel Big (6)
227	231	Brown clay
231	239	Gravel (7)
239	244	Brown clay
244	254	Gravel (8)
254	264	Brown clay
264	275	Gravel (9)
275	284	Brown clay
284	292	Gravel (10)
292	296	Brown clay
296	314	Gravel (11)
314	322	Brown clay

TOTAL DEPTH OF BORING 509 (Feet)
TOTAL DEPTH OF COMPLETED WELL 420 (Feet)

WELL OWNER

Name Shaumba / Don Rudder
Mailing Address P.O. BOX 99
City Tehama STATE CA 96090

WELL LOCATION

Address Cyle Rd by Tehama Colusa Canal
City Tehama
County Tehama
APN Book _____ Page _____ Parcel _____
Township _____ Range _____ Section _____
Latitude _____ NORTH Longitude _____ WEST

LOCATION SKETCH

NORTH

WEST

EAST

SOUTH

Illustrate or Describe Distance of Well from Landmarks such as Roads, Buildings, Fences, Rivers, etc. PLEASE BE ACCURATE & COMPLETE.

ACTIVITY (∠)

NEW WELL

MODIFICATION/REPAIR

Deepen

Other (Specify) _____

DESTROY (Describe Procedures and Materials Under "GEOLOGIC LOG")

PLANNED USE(S) (∠)

MONITORING

WATER SUPPLY

Domestic

Public

Irrigation

Industrial

"TEST WELL"

CATHODIC PROTECTION

OTHER (Specify) _____

DRILLING METHOD Rotary FLUID _____

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH OF STATIC WATER LEVEL 35 (Ft.) & DATE MEASURED _____

ESTIMATED YIELD 3000 (GPM) & TEST TYPE _____

TEST LENGTH _____ (Hrs) TOTAL DRAWDOWN _____ (Ft.)

* May not be representative of a well's long-term yield.

DEPTH FROM SURFACE	BUILT HOLE DIA. (Inches)	CASING(S)								
		TYPE (∠)				MATERIAL / GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)	
Ft.	to Ft.	BLANK	SCREEN	CON. DOCTOR	FLY PIPE					
0	120	24	x				Steel	16	.250	
120	160	24		x			Steel	16	.250	1/8
180	200	24					Steel	16	.250	1/8
220	260	24		x			Steel	16	.250	1/8
300	320	24					Steel	16	.250	1/8
340	420	24			x		Steel	16	.250	1/8

DEPTH FROM SURFACE	ANNULAR MATERIAL				
	TYPE				
Ft.	to Ft.	CE-MENT (∠)	BEN-TONITE (∠)	FILL (∠)	FILTER PACK (TYPE/SIZE)
0	20				
20	420			x	3/8 Gravel

ATTACHMENTS (∠)

Geologic Log

Well Construction Diagram

Geophysical Log(s)

Soil/Water Chemical Analyses

Other _____

ATTACH ADDITIONAL INFORMATION IF IT EXISTS

CERTIFICATION STATEMENT

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

NAME Grade Drilling, Inc.
(PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)

ADDRESS 19130 Bowman Rd City Cottonwood STATE CA ZIP 96022

Signed [Signature] WELL DRILLER/AUTHORIZED REPRESENTATIVE DATE SIGNED 5-16-93 326025-05 C-57 LICENSE NUMBER

STATE OF CALIFORNIA
WELL COMPLETION REPORT
Refer to Instruction Pamphlets

Owner's Well No. Canal well No. **406400**
Date Work Began _____, Ended 5-10-93
Local Permit Agency _____ Permit Date _____

DWR USE ONLY - DO NOT FILL IN

STATE WELL NO./STATION NO. _____

LATITUDE _____ LONGITUDE _____

APN/TRS/OTHER _____

GEOLOGIC LOG		
ORIENTATION (∠) <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> HORIZONTAL <input type="checkbox"/> ANGLE _____ (SPECIFY)		
DEPTH TO FIRST WATER _____ (FL) BELOW SURFACE		
DESCRIPTION		
<i>Describe material, grain size, color, etc.</i>		
DEPTH FROM SURFACE	FL	FL
322	331	Gravel (12)
331	346	Brown clay
346	361	Gravel (13)
361	370	Brown clay
370	385	Gravel Good (14)
385	389	Brown clay
389	400	Gravel Good (15)
400	404	clay
404	412	Gravel (16)
412	415	clay
415	431	Gravel (17)
431	450	clay
450	470	Gravel (18)
470	480	clay
480	483	Gravel
483	495	clay
495	498	Gravel
498	505	clay
505	509	Gravel

WELL OWNER

Name Shamba / Boulder
Mailing Address _____
CITY _____ STATE _____ ZIP _____

WELL LOCATION

Address _____
City _____
County _____
APN Book _____ Page _____ Parcel _____
Township _____ Range _____ Section _____
Latitude _____ Longitude _____

LOCATION SKETCH

WEST _____ EAST _____
NORTH _____ SOUTH _____

Illustrate or Describe Distance of Well from Landmarks such as Roads, Buildings, Fences, Rivers, etc. PLEASE BE ACCURATE & COMPLETE.

ACTIVITY (∠)

NEW WELL
 MODIFICATION/REPAIR
 Deeper
 Other (Specify) _____

DESTROY (Describe Procedures and Materials Under "GEOLOGIC LOG")

PLANNED USE(S) - (∠)

MONITORING
 WATER SUPPLY
 Domestic
 Public
 Irrigation
 Industrial
 "TEST WELL"
 CATHODIC PROTECTION
 OTHER (Specify) _____

DRILLING METHOD _____ FLUID _____
WATER LEVEL & YIELD OF COMPLETED WELL
DEPTH OF STATIC WATER LEVEL _____ (Fl.) & DATE MEASURED _____
ESTIMATED YIELD* _____ (GPM) & TEST TYPE _____
TEST LENGTH _____ (Hrs.) TOTAL DRAWDOWN _____ (Fl.)
* May not be representative of a well's long-term yield.

TOTAL DEPTH OF BORING 509 (Feet)
TOTAL DEPTH OF COMPLETED WELL 420 (Feet)

DEPTH FROM SURFACE	BORE-HOLE DIA. (Inches)	CASING(S)						DEPTH FROM SURFACE	ANNULAR MATERIAL					
		TYPE (∠)				MATERIAL/ GRADE	INTERNAL DIAMETER (Inches)		GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)	TYPE			
Fl	to	Fl.	BLANK	SCREEN	CON. DUCTOR			FILL PIPE			Fl.	to	Fl.	CE- MENT (∠)

- ATTACHMENTS (∠)**
- Geologic Log
 - Well Construction Diagram
 - Geophysical Log(s)
 - Soil/Water Chemical Analyses
 - Other _____
- ATTACH ADDITIONAL INFORMATION IF IT EXISTS

CERTIFICATION STATEMENT

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

NAME Grade Drilling, Inc.
(PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)

ADDRESS 19130 Bowman Rd Coltonwood CA 96022
CITY STATE ZIP

Signed [Signature]
WELL DRILLER/AUTHORIZED REPRESENTATIVE

DATE SIGNED 5-10-93 336025 CS
C-57 LICENSE NUMBER

ENGINE:

General Motors 454 Tecodrive 7400 Natural Gas, made by Crusader Engines.
Engine sold by Sierra Detroit Diesel Allison in Sacramento, Ca.
Unit ID# TD 2045

WELL:

140 ft. 10" Column
140 ft. x 2-1/2" x 1-1/2" tube and shaft
2 stage 14 WC Bowls
10" discharge head
10" x 10" suction with screen
10" x 8' discharge pipe
Manual oiler
100 HP DeRon gearhead 4:5 gear ratio
1610 x 4 ft. drive line with flanges
Drive line cover
Well sold by Shasta Pump Sales in Cottonwood, Ca.