



June 1, 2010

Mr. Iain Fisher
CEQA Project Manager
Energy Division
California Public Utilities Commission
505 Van Ness Avenue
San Francisco, CA 94102-3296

Re: Tule Wind Project - Response to Data Request No. 7

Dear Mr. Fisher:

Pacific Wind Development, Inc., a wholly owned subsidiary of Iberdrola Renewables, Inc. (IBR) received your Data Request No. 7 regarding the Tule Wind Project. Enclosed is IBR's response.

If you have questions regarding this information, please contact me at 503.796.7781 or Patrick O'Neill at 858.712.8313.

Sincerely,

Jeffrey Durocher
Wind Permitting Manager

cc (via e-mail): Greg Thomsen, BLM (GThomsen@blm.gov)
Thomas Zale, BLM (Thomas_Zale@blm.gov)
Jeffery Childers, BLM (jchilders@blm.gov)
Rica Nitka, Dudek (rnitka@dudek.com)
Patrick O'Neill, HDR (Patrick.oneill@hdrinc.com)

Encl.

IBERDROLA RENEWABLES, Inc.
1125 NW Couch St., Suite 700
Portland, OR 97209
Telephone (503) 796-7000
www.iberdrolarenewables.us

Response to Data Request No. 7

Groundwater

1. Please provide physical and performance data for the three wells located on the Rough Acres Ranch.

Response: Attached are well completion reports for the three wells.

2. Please provide supporting data for the 80 gallons per minute production rate.

Response: The production estimates are based on actual well production observed by the property owner.

3. Has an aquifer test been performed to determine aquifer properties? If yes, please provide results.

Response: An aquifer test has not been performed.

4. Please provide the observed draw down of the wells during pumping.

Response: See attached well completion reports.

5. Please provide the location of the wells relative to each other and surrounding topography.

Response: The well location information is included in Figure ES-2 supplied with the Applicant's Environmental Documentation. The attached figure (Construction Well Locations) also shows topography.

6. Based on Geologic Associates (GLA), January 25, 2010 memo on Groundwater Resources, they indicate a separate water supply study would be prepared that addresses the construction related water sources. Is this complete and does it address the proposed use of 250,000 gallons per day for up to 24 months?

Response: **The estimated 250,000 gpd need is a very conservative, maximum usage estimate because it assumes maximum road watering and**

foundation construction happening simultaneously. This over-estimates the daily water usage over a 24 month construction period. The peak usage would not occur for a full 24 months, but would likely occur for a 1 to 2 month period. Accordingly, IBR is confident that the supply will be sufficient to meet peak daily usage.

STATE OF CALIFORNIA
WELL COMPLETION REPORT

Page 1 of 1

Owner's Well No. Par. 6 -120

No. **0909549**

Date Work Began 2/1/05 Ended 2/9/05

Local Permit Agency DEH

Permit No. 16456 Permit Date 2/1/05

DWR USE ONLY - DO NOT FILL IN

STATE WELL NO./STATION NO.

LATITUDE LONGITUDE

APN/TAS/OTHER

GEOLOGIC LOG

ORIENTATION (±)		DRILLING METHOD	FLUID	ANGLE (SPECIFY)
<input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> HORIZONTAL <input type="checkbox"/> ANGLE		<u>Rotary</u>	<u>Air</u>	
DEPTH FROM SURFACE		DESCRIPTION		
Ft	to Ft	Describe material, grain size, color, etc.		
0	12	<u>Slope wash - sandy decomposed granite - brown color</u>		
12	212	<u>Weathered Granitic Rock</u>		
212	226	<u>Broken Rock</u>		
226	310	<u>Weathered granitic rock mostly white quartz</u>		
310		<u>Water 8 gpm</u>		
310	961	<u>Granitic rock large crystals of white quartz</u>		
961		<u>Water 40+ gpm</u>		
961	970	<u>Fractured granitic rock large quartz crystals</u>		
TOTAL DEPTH OF BORING <u>970</u> (Feet)				
TOTAL DEPTH OF COMPLETED WELL <u>970</u> (Feet)				

WELL OWNER

Name The Hamann Companies

Mailing Address 1000 Pioneer Way
El Cajon Ca 92020

CITY STATE ZIP

WELL LOCATION

Address Rough Acres Ranch McCain Valley Rd.
Boulevard

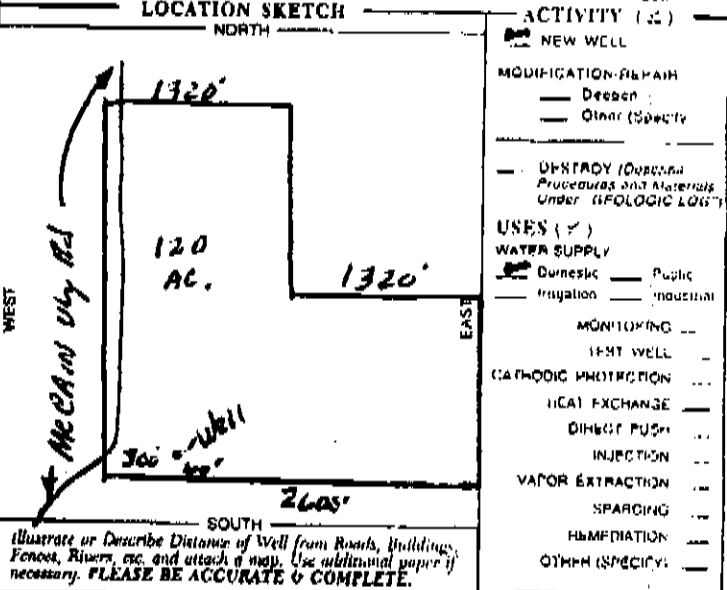
County San Diego

APN Book 611 Page 110 Parcel 01

Township 17S Range 7E Section 15

Lat 36 16 77.2 N Long 115 69 46.8 W

DEG. MIN. SEC. DEG. MIN. SEC.



WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH TO FIRST WATER 30 (Ft.) BELOW SURFACE

DEPTH OF STATIC WATER LEVEL 18 (Ft.) & DATE MEASURED

ESTIMATED YIELD * 50 (GPM) & TEST TYPE airlift

TEST LENGTH 8 (Hrs.) TOTAL DRAWDOWN 800 (Ft.)

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

DEPTH FROM SURFACE	BORE-HOLE DIA (Inches)	CASING (S)				
		TYPE (±)	MATERIAL / GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)
0	10	X	Steel	6	188	

DEPTH FROM SURFACE	ANNULAR MATERIAL TYPE			
	CE-MENT (±)	BN-TONITE (±)	FILL (±)	FILTER PACK (TYPE/SIZE)
0	X			
50			X	

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 Fain Drilling & Pump Co. Inc.
(PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)

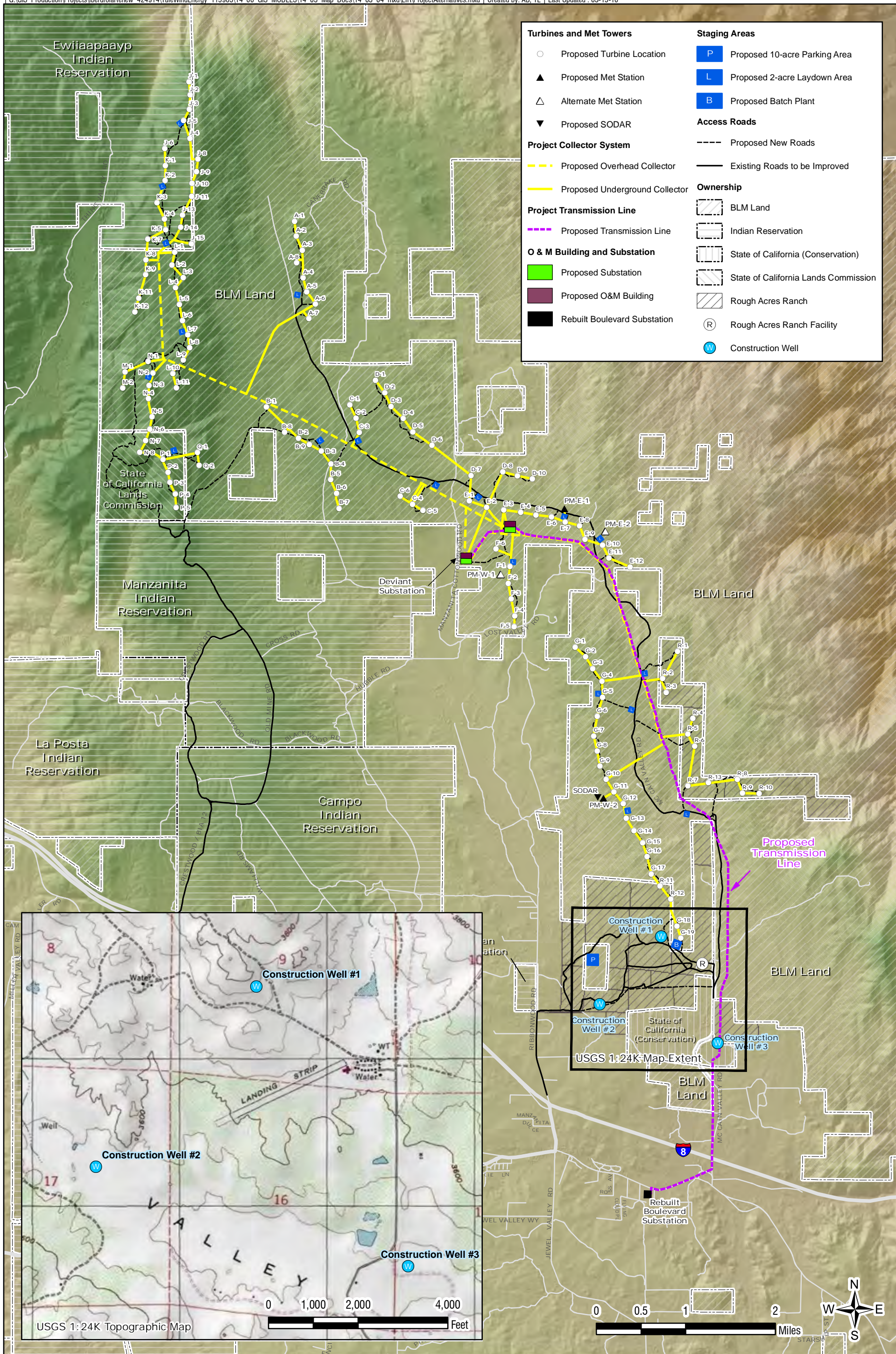
12029 Old Castle Rd. Valley Center, Ca 92082

ADDRESS CITY STATE ZIP

2/11/05 328287

DATE SIGNED C-57 LICENSE NUMBER

Signature: J. R. Fain
C-57 LICENSED WATER WELL CONTRACTOR



12-95
sec 9



COUNTY OF SAN DIEGO
DEPARTMENT OF ENVIRONMENTAL HEALTH
WELL PERMIT APPLICATION

DEH USE ONLY
PERMIT # W 16225
WELL COMPUTER #
FEE: _____
WATER DIST: _____

Parcel # ~~2~~ 120 acres

1. Property Owner: Hammann Companies Phone: 410-7124
1000 Piaggio Way 61 Carson 91202
Mailing Address City Zip

2. Well Location - Assessors Parcel Number 611-070-03 611-070-01
McCain St Stevens Blvd
Site Address City Zip

3. Well Contractor - Well Driller Jim Moore Company Name: Jim Moore Drilling
(Hous) Lawrence St, San San 91935
Mailing Address City Zip
Phone#: 415 1926 C-57#: 340722 Cash Deposit Bond Posted

4. Use: Private Public Industrial Cathodic Other _____
5. Type of Work: New Reconstruction Destruction Time Extension: 1st 2nd
6. Type of Equipment: Ann. Seal
7. Depth of Well: Proposed: 300 Existing: 0
8. Proposed:

Casing	Conductor Casing	Filter/Filler Material	Perforations
Type: <u>Steel</u>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Depth: <u>50</u> ft.	Depth: _____ ft.	From: _____ To: _____	From: _____ To: _____
Diameter: <u>7</u> in.	Diameter: _____ in.	Type: _____	From: _____ To: _____
Wall/Gauge: <u>1 1/2</u>	Wall/Gauge: _____	Wall/Gauge: _____	From: _____ To: _____

9. Annular Seal: Depth: 50 ft. Sealing Material: Cement
Borehole diameter: 11 in. Conductor diameter: _____ in. Annular Thickness 2 in.
10. Date of Work: Start: 11-1-04 Complete: 11-4-04

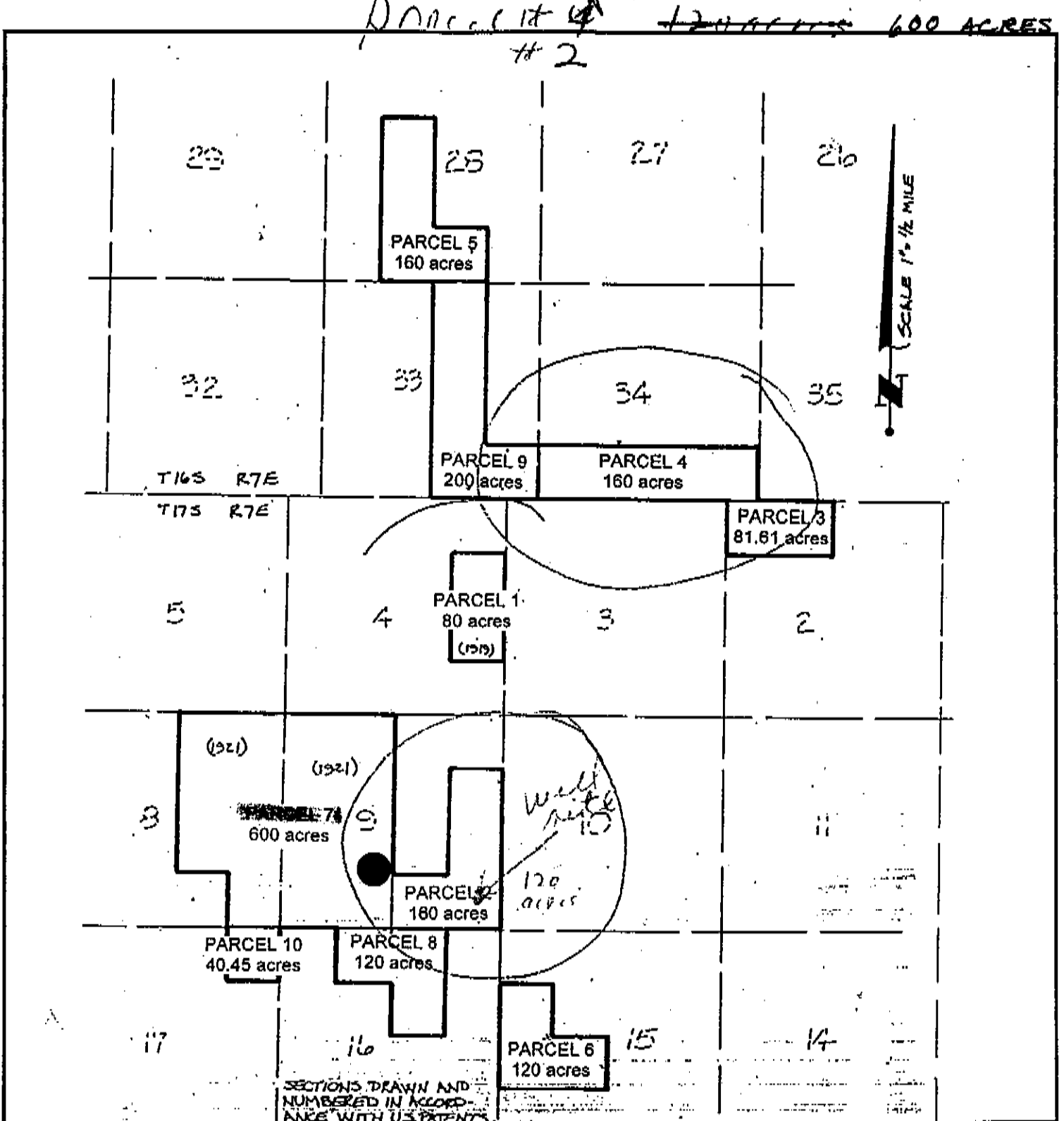
On sites served by public water, contact the local water agency for meter protection requirements.
I hereby agree to comply with all regulations of the Department of Environmental Health, and with all ordinances and laws of the County of San Diego and the State of California pertaining to well construction, repair, modification and destruction. Immediately upon completion of work, I will furnish the Department of Environmental Health with a complete and accurate log of the well. I accept responsibility for all work done as part of this permit and all work will be performed under my direct supervision.

Contractor's Signature: Jim Moore Date: 7-16-04

DISPOSITION OF APPLICATION (Department of Environmental Health Use only)
 Approved Denied Special Conditions: Grading and clearing associated with access to, or the construction, maintenance or destruction of water wells, may require additional permits from the County of San Diego and/or other agencies.
Specialist: Jerry O'Call Date: 9/16/04

LOCATION

Indicate below the vicinity and exact location of well with respect to the following items: Property lines, water bodies or water courses, drainage pattern, easements, roads, existing wells, sewers and private sewage disposal systems and other potential contamination sources, including dimensions.



FIRST CARBON COPY

1/20/80
PUMP 160

COUNTY OF SAN DIEGO
DEPARTMENT OF HEALTH SERVICES
1700 PACIFIC HIGHWAY, SAN DIEGO, CA 92101-2417

Notice of Intent No. _____
Local Permit No. or Date _____

WATER WELL DRILLERS REPORT
(INSERT under ORIGINAL PAGE w/carbon of State Form)

State Well No. _____
Other Well No. _____

(1) OWNER: Name John Gibson #6
Address _____
City _____ Zip _____
(2) LOCATION OF WELL (See instructions)
County _____ Owner's Well Number _____
Well address if different from above _____
Township _____ Range _____ Section _____
Distance from cities, roads, railroads, fences, etc. _____

(12) WELL LOG: Total depth 600 ft. Depth of completed well 155 ft.
from ft. to ft. Formation (Describe by color, character, size or material)
0-2 - LOOSE SOIL
2-15 - D.G. GRAY
15-70 - BLACK, WHITE ROCK
70-71 - SAND (2 GPM)
71-90 - BLACK, WHITE ROCK
90-92 - SAND, CLAY (2 GPM)
92-155 - BLACK, WHITE ROCK, SOME SAND
AREAS
155-179 - VERY SAND (6 GPM)

DEPARTMENT USE ONLY
Completed Well Construction _____
Date _____
Date Inspected _____
Comments _____
Water Sample Taken? _____
Sanitarian's Approval: _____

(3) TYPE OF WORK:
New Well Deepening
Reconstruction
Reconditioning
Horizontal Well
Destruction (Describe destruction materials and procedures in item (12))
(4) PROPOSED USE:
Domestic
Irrigation
Industrial
Test Well
Stock
Municipal
Other

(5) Equipment:
Rotary Reverse
Cable Air
Other Bucket

(6) Gravel Packs None
Yes No Size _____
Diameter of above _____
Packed from _____ to _____ ft.

(7) Casing Installed:
Steel Plastic Concrete
From ft. To ft. Dia. in. Gage or Wall _____
0 20 7 156

(8) Perforations:
Type of perforation or size of screen
From ft. To ft. Slot Size _____

(9) WELL SEAL:
Was surface sanitary seal provided? Yes No If yes, to depth _____ ft.
Were struts sealed against pollution? Yes No Interval _____ ft.
Method of sealing BENTONITE-CEMENT

(10) WATER LEVELS:
Depth of first water, if known 70 ft.
Standing level after well completion 45 ft.

(11) WELL TESTS:
Was well test made? Yes No If yes, by whom? DRILLER
Type of test Pump Bailor Air lift
Depth to water at start of test _____ ft. At end of test _____ ft.
Discharge 10 gal/min after 3 hours Water temperature COOL
Chemical analysis made? Yes No If yes, by whom?
Was electric log made? Yes No If yes, attach copy to this report

Work Started 19 Completed 19
WELL DRILLERS STATEMENT: I hereby declare under penalty of perjury that the information provided in this report is true. This water well was installed in compliance with San Diego County Code and State of California, Department of Water Resources, Bulletin No. 74.
SIGNED Ken A. Brown
(Well Driller)
NAME _____
(Person, firm, or Corporation) (Type or Print)
ADDRESS _____
CITY _____ ZIP _____
LICENSE NO. _____ DATE THIS REPORT _____

T174
R7E
15



COUNTY OF SAN DIEGO
DEPARTMENT OF ENVIRONMENTAL HEALTH
WELL PERMIT APPLICATION

DEH USE ONLY
PERMIT # W LSL162
WELL COMPUTER #
FEE: _____
WATER DIST: _____

Parcel # 600
12000005

1. Property Owner: Hammann Companies Phone: 640-7424
1000 Riverside Drive Escondido 92020
Mailing Address City Zip

2. Well Location - Assessors Parcel Number 644-110-01 611-060-03
1000 Riverside Drive Escondido 92020
Site Address City Zip

3. Well Contractor - Well Driller Jim Adams Company Name: Jim Adams Drilling
10053 Camino Vista Hill Escondido 92020
Mailing Address City Zip

Phone#: 445-1926 C-57#: 30722 Cash Deposit Bond Posted

4. Use: Private Public Industrial Cathodic Other _____
5. Type of Work: New Reconstruction Destruction Time Extension: 1st 2nd

6. Type of Equipment: ALL HANDY

7. Depth of Well: Proposed: 300 Existing: _____

8. Proposed:
Casing Conductor Casing Filter/Filler Material Perforations
Type: Steel Yes No Yes No
Depth: 20 ft. From: _____ To: _____
Diameter 7 in. Diameter _____ in. Type: _____ From: _____ To: _____
Wall/Gauge: 19 Wall/Gauge: _____ Wall/Gauge: _____ From: _____ To: _____

9. Annular Seal: Depth: _____ ft. Sealing Material: Grout
Borehole diameter: _____ in. Conductor diameter: _____ in. Annular Thickness _____ in.

10. Date of Work: Start: 2-25-04 Complete: 2-27-04

On sites served by public water, contact the local water agency for meter protection requirements.
I hereby agree to comply with all regulations of the Department of Environmental Health, and with all ordinances and laws of the County of San Diego and the State of California pertaining to well construction, repair, modification and destruction. Immediately upon completion of work, I will furnish the Department of Environmental Health with a complete and accurate log of the well. I accept responsibility for all work done as part of this permit and all work will be performed under my direct supervision.

Contractor's Signature: [Signature] Date: 2-25-04

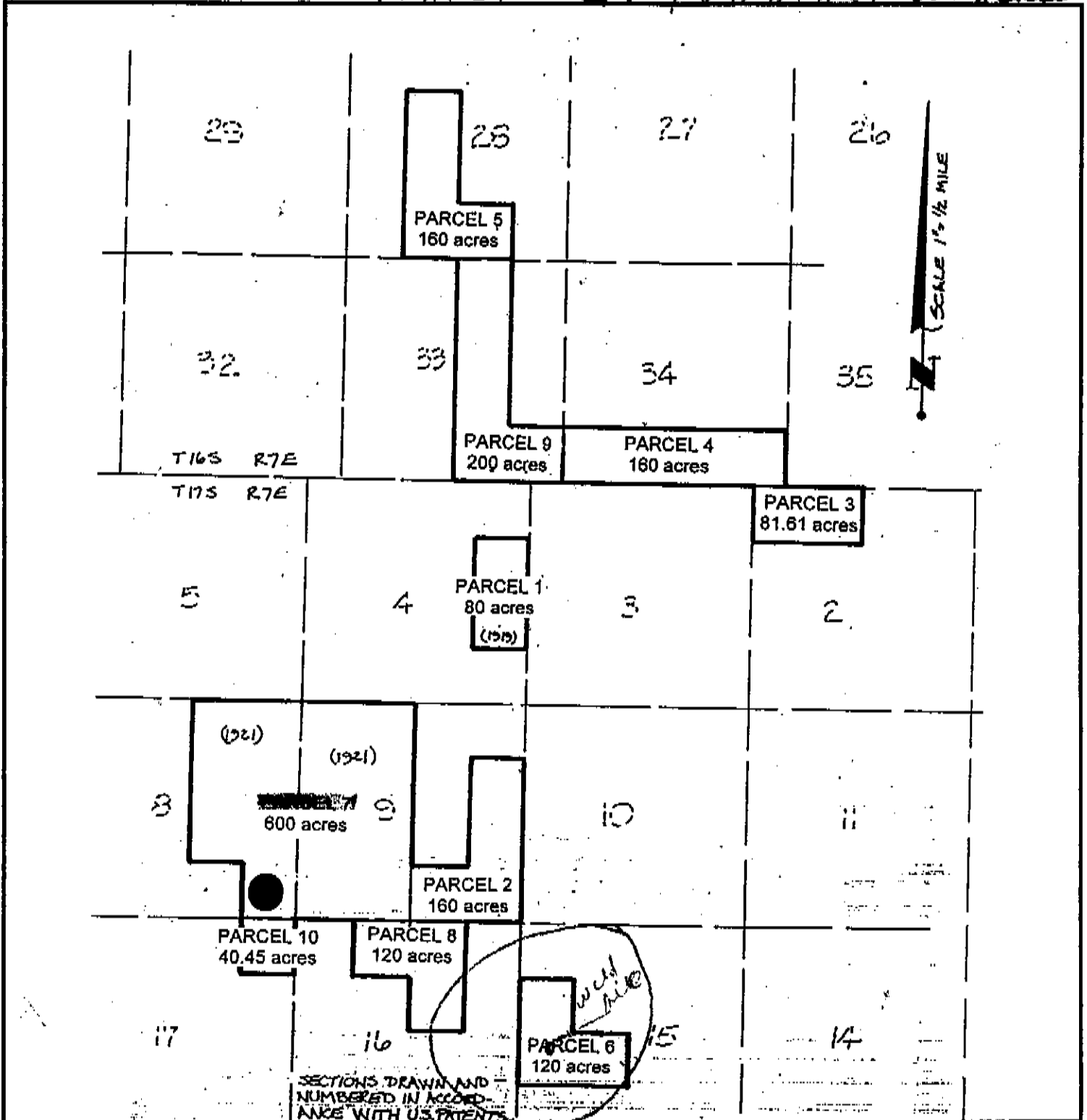
DISPOSITION OF APPLICATION (Department of Environmental Health Use only)
 Approved Denied Special Conditions: Grading and clearing associated with access to, or the construction, maintenance or destruction of water wells, may require additional permits from the County of San Diego and/or other agencies.
Specialist: Danny O'Callahan Date: 2/16/04

the public utility to stop

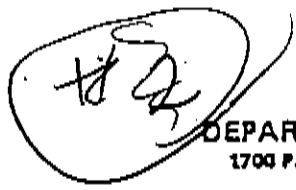
LOCATION

Indicate below the vicinity and exact location of well with respect to the following items: Property lines, water bodies or water courses, drainage pattern, easements, roads, existing wells, sewers and private sewage disposal systems and other potential contamination sources, including dimensions.

Parcel # 67 + 200 acres 600 acres



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COUNTY OF SAN DIEGO
DEPARTMENT OF HEALTH SERVICES
1700 PACIFIC HIGHWAY, SAN DIEGO, CA 92101-2417

Notice of Intent No. _____
Local Permit No. or Date _____

WATER WELL DRILLERS REPORT
(INSERT under ORIGINAL PAGE w/carbon of State Form)

State Well No. _____
Other Well No. _____

(1) OWNER: Name JOHN WELL No. 2
Address REXIN ACRE
City _____ Zip _____
(2) LOCATION OF WELL (See Instructions):
County _____ Owner's Well Number _____
Well address if different from above _____
Township _____ Range _____ Section _____
Distance from cities, roads, railroads, fences, etc. _____

(12) WELL LOG: Total depth 260 ft. Depth of completed well 185 ft.
from ft. to ft. Formation (Describe by color, character, size or material)
0-91 - SAND, D.G.
91-130 - SOFT, ORANGE, WHITE & BROWN
130-132 - GRAY SOFT (3 GPM)
133-185 - SOFT SAND, WHITE, BLACK
195-190 - LOOSE ROCK (20 GPM)
190-260 - SOFT; HARD

DEPARTMENT USE ONLY
Completed Well Construction:
Date _____
Date Inspected _____
Comments _____
Water Sample Taken? _____
Sanitarian's Approval: _____
Jetted

(3) TYPE OF WORK:
New Well Deepening
Reconstruction
Reconditioning
Horizontal Well
Destruction (Describe destruction materials and procedures in Item (12))
(4) PROPOSED USE:
Domestic
Irrigation
Industrial
Test Well
Stock
Municipal
Other

(5) Equipment:
Rotary Reverse
Cable Air
Other Bucket

(6) Gravel Pack: 3/8" to 1/2"
Yes No Size _____
Diameter of above 4"
Packed from 0 to 185 ft.

(7) Casing Installed:
Steel Plastic Concrete

From ft.	To ft.	Dia. in.	Gage or Wall
0	91	6 3/4	18 1/2

(8) Perforations:
Type of perforation or size of screen

From ft.	To ft.	Slot Size
0	185	3/8" x 1/2"

(9) WELL SEAL:
Was surface sanitary seal provided? Yes No If yes, to depth 91 ft.
Were strata sealed against pollution? Yes No Interval _____ ft.
Method of sealing BENTONITE - CEMENT

(10) WATER LEVELS:
Depth of first water, if known 130 ft.
Standing level after well completion 35 ft.

(11) WELL TESTS:
Was well test made? Yes No If yes, by whom? Driller
Type of test Pump Bailor Air lift
Depth to water at start of test _____ ft. At end of test _____ ft.
Discharge 15 gal/min after 1 hours Water temperature cool
Chemical analysis made? Yes No If yes, by whom?
Was electric log made? Yes No If yes, attach copy to this report

Work Started _____ 19 _____ Completed _____ 19 _____
WELL DRILLERS STATEMENT: I hereby declare under penalty of perjury that the information provided in this report is true. This water well was installed in compliance with San Diego County Code and State of California, Department of Water Resources, Bulletin No. 74.
SIGNED John A. DeB...
(Well Driller)
NAME _____
(Person, firm, or Corporation) (Type or Print)
ADDRESS _____
CITY _____ ZIP _____
LICENSE NO. _____ DATE THIS REPORT _____