WHITE—DIVISION OF WATER RESOURCES
CANARY—CLIENT'S COPY
PINK—WELL DRILLER'S COPY

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STATE OF NEVADA
DIVISION OF WATER RESOURCES

WELL DRILLER'S REPORT

Please complete this form in its entirety in accordance with NRS 534.170 and NAC 534.340

OFFICE USE ONLY
Log No. 40770
Permit No.
Basin BSK

NOTICE OF INTENT NO. 21528

1. OWNER Sky Ranch Utilities
MAILING ADDRESS 11999 San Vicente
Los Angeles, CA 90049

ADDRESS AT WELL LOCATION Pyramid Hwy & Egyption Rd. on N.E. intersection

2. LOCATION SW ¼ SE ¼ Sec 26 T 21N N/S R 20 E Washoe County
PERMIT NO. 17425, 32882 (Issued by Water Resources) 076-100-042 (Parcel No.) Subdivision Name

3. WORK PERFORMED
☐ New Well ☐ Replace ☐ Recondition
☐ Deepen ☒ Abandon ☐ Other

4. PROPOSED USE
☒ Domestic ☒ Irrigation ☐ Test
☐ Municipal/Industrial ☐ Monitor ☐ Stock

5. WELL TYPE
☐ Cable ☒ Rotary ☐ RVC
☐ Air ☐ Other

6. LITHOLOGIC LOG

Material	Water Strata	From	To	Thickness
Abandon well per regulations after removing pump from the well. Static water level was 70' from surface. We used 31 yards of neat cement to abandon the well using tremie tube and pumping to the bottom and filling from bottom to the top of the well. Neat cement was also seen coming up the annulus between the 10" casing and the 24" conductor casing before appearing up the 10" casing. The vertical turbine pump was removed in its entirity. Other details on enclosed statement.				

'93 MAR 25 A9:46
STATE ENGINEER

Date started 3-1, 19 93
Date completed 3-18, 19 93

7. WELL TEST DATA
TEST METHOD: ☐ Bailer ☐ Pump ☐ Air Lift

G.P.M.	Draw Down (Feet Below Static)	Time (Hours)

8. WELL CONSTRUCTION
Depth Drilled 787 Feet Depth Cased 787 Feet

HOLE DIAMETER (BIT SIZE)

	From	To
12 Inches	0 Feet	787 Feet
Inches	Feet	Feet
Inches	Feet	Feet

CASING SCHEDULE

Size O.D. (Inches)	Weight/Ft. (Pounds)	Wall Thickness (Inches)	From (Feet)	To (Feet)
10		3/16"	0	787
24		1/4	0	48

Perforations:
Type perforation factory?
Size perforation 3/16 x 1½"
From 37 feet to 787 feet
From feet to feet
From feet to feet
From feet to feet
From feet to feet

Surface Seal: ☐ Yes ☐ No
Depth of Seal
Placement Method: ☐ Pumped ☐ Poured
Seal Type: ☐ Neat Cement ☐ Cement Grout ☐ Concrete Grout

Gravel Packed: ☒ Yes ☐ No
From unknown feet to feet

9. WATER LEVEL
Static water level 70 feet below land surface
Artesian flow G.P.M. P.S.I.
Water temperature °F Quality unknown

10. DRILLER'S CERTIFICATION
This well was drilled under my supervision and the report is true to the best of my knowledge.
Name MacKay Pump & Geothermal, Inc. (Contractor)
Address 1600 Mt. Rose Hwy (Contractor)
Reno, NV 89511
Nevada contractor's license number issued by the State Contractor's Board 23096
Nevada driller's license number issued by the Division of Water Resources, the on-site driller 1719
Signed R. Bruce MacKay (By driller performing actual drilling on-site or contractor)
Date 3-18-'93

(Rev. 3-91) USE ADDITIONAL SHEETS IF NECESSARY (O)-627

WQ 40770

3-18-'93

Julie Gilbert
11999 San Vicente Blvd.
Los Angeles, CA 90049

Dear Julie,

Below is a cost breakdown and explanation of work performed to abandon the well at Sky Ranch Utilities:

1) Permit to abandon the well-
2) 3-1-'93, Try and pull pump, 2 rigs and crews, 10 hrs
3) 3-3-'93, Dig pit, circulate drilling mud inside 24" conductor pipe, outside 10" well casing using 1 1/4" pipe. Unable to circulate any material to surface and didn't loosen pump. Equipment used-Backhoe, pump pulling rig, centrifugal pump, grout pump, misc. hoses & pipe. 9 hours
4) 3-5-'93, Drilled on outside of 10" casing using 1" bit to try and find where fill is and clean out. Drilled to 110' where we hit what appeared to be the top of the pump. We then lowered pipe inside the pump column and found pump bowls at about 110'. Rented (2) 30 ton jacks and R.R. ties and R.R. rails to try and jack the pump loose.
   Equipment used- Drill rig (small), pumps, hoses, pipe, etc. 10.5 hrs.
5) 3-8-'93, Rent 300 c.f.m. compressor and tried to foam material from well to loosen the pump, blowing foam down pump column. Then used 30 ton jacks to try and lift at the same time. Still the pump refused to budge. After stopping air and foam, foam came to surface under pressure and had no visible oil residue.
   5 hours
6) 3-10-'93, Rent 50 ton jacks, I-Beams for support and using two pump pulling rigs was able to pull pump from well.
   7 1/2 hrs-1 rig & crew
   4 hrs 2nd-rig and crew
   Lowered weight and found that there was open hole (no fill) to approximate bottom of the well-787'.
   Called Rob Martinez at State and told him of the progress and he authorized the grouting of the well per State regulations by pumping neat cement from bottom of the well to the top.
7) 3-11-'93, Lowered approximately 756' x 1 1/4" galv. pipe into the the well for abandoning. Secured top of well against accidents.
   4 hours

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8) 3-15-'93, Pumped 6 yards neat cement to bottom and pulled pipe up to about 500'. 4 hrs
9) 3-16-'93, Lower pipe and pump 6 yards cement. Raise pipe after pumping cement. 4 hrs
10) 3-17-'93, Lowered pipe and pumped 6 yards cement, then raised pipe and pumped another 6 yards cement which brought the level in the well to about 45'.
7 hrs
11) 3-18-'93, Pour 7 yards neat cement to finish the abandonment. From this level we were also filling 24" conductor casing. Use backhoe to grade the area and clean up the site. Return pump station to "on" mode for Sky Ranch Utilities. The pump had been "off" during abandoning so the pump wouldn't pull any cement into the aquifir. 4 hrs

RECAP OF WORK

Permit from Helath Dept #4668
Labor as described above-
Rental Equipment:
a) 2 days- (2) 30 ton jacks
b) 300 c.f.m. compressor
c) 1 day- (2) 50 ton jacks

Materials:
a) 35 sacks drilling mud.
b) 5 gallons polymer-
c) 5 gallons foamer-
d) Scrap iron-
e) 31 yards neat cement + delivery time per invoice copies attached- $6,244.44

Thank you for the opportunity to be of service. Please call if you have any questions about the above.

Sincerely,

R. Bruce MacKay

R. Bruce MacKay
Pres.