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

PRINT OR TYPE ONLY
DO NOT WRITE ON BACK

AMENDED

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. 98656
Permit No.
Basin 230

NOTICE OF INTENT NO. 23552

1. OWNER NATIONAL PARK SERVICE
MAILING ADDRESS 1201 OAKRIDGE DRIVE, SUITE 250
FORT COLLINS, CO 80525-6266

ADDRESS AT WELL LOCATION GPS COORDINATES
N. 36°, 29 MIN., 878 SEC.
W. 116°, 21 MIN., 016 SEC.

2. LOCATION NE ¼ SW ¼ Sec. 4 T. 17 N/S R. 50 E. NYE County
PERMIT NO. (Issued by Water Resources) 21-301-01 (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 (MUD) ☐ RVC
☐ Air ☐ Other

6. LITHOLOGIC LOG

Material	Water Strata	From	To	Thickness
SANDY		0'	5'	5'
CEMENTED GRAVEL CHIPS		5'	20'	15'
CLAY, SOME ORGANIC		20'	40'	20'
MORE CLAY LIKE / VERY STICKY		40'	100'	60'
CLAY WITH DENSE LAYERS		100'	200'	100'
CLAY, TURNS RED @ 250'		200'	300'	100'
SOME GRAVEL, DRILL VIBRATION		300'	350'	50'
BACK TO CLAY		350'	390'	40'
HARD LAYERS, DRILL VIBRATIONS		390'	450'	60'
CUTTINGS LOOK LIKE CALICHE		450'	460'	10'
DRILLING SLOW LIKE ROCK		460'	503'	43'
POSSIBLE QUARTZITE FORMATION		503'	510'	7'
TOTAL DEPTH: 510'				

REMARKS: TWO 2" PVC OBSERVATION TUBES WERE INSTALLED IN THIS BOREHOLE. THE LOWER TUBE WENT TO 505' WITH SLOTS UP TO 465'. THE SAND PACK IS FROM 510' UP TO 446.6'. THE UPPER TUBE IS INSTALLED TO 340' WITH SLOTS UP TO 320'. THE SAND PACK IS FROM 364' TO 305.8'. BENTONITE GROUT PLUGS PUMPED FROM BOTTOM UP ARE FROM 446.6' TO 364' AND FROM 305.8' UP TO LAND SURFACE. A REINFORCED CONCRETE AND STEEL PROTECTIVE COVER WILL BE INSTALLED OVER THE TWO MONITORING TUBES AT LAND SURFACE.
NOTE: ARTESIAN FLOW WAS NOT OBSERVED UNTIL AFTER THE DRILL MUD WAS AIR LIFTED FROM THE TWO MONITORING PIEZOMETERS.
Dual Completion

Date started 09/23/05 (20 05)
Date completed 09/25/05 (20 05)

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

	G.P.M.	Draw Down (Feet Below Static)	Time (Hours)
ARTESIAN FLOW STARTED AFTER AIR LIFTING.			
UPPER ZONE	0.8 GPM	@ 3' ABOVE	GROUND SURFACE
LOWER ZONE	36.0 GPM	@ 3' ABOVE	GROUND SURFACE
BOTH PIEZOMETERS WERE SHUT IN AFTER BUCKET DISCHARGE MEASUREMENTS.			

8. WELL CONSTRUCTION DUAL PIEZOMETER (PVC)
Depth Drilled 510 Feet Depth Cased 340 & 505 Feet

HOLE DIAMETER (BIT SIZE)

	From	To
8 3/4 Inches	0 Feet	510 Feet
Inches	Feet	Feet
Inches	Feet	Feet

CASING SCHEDULE

Size O.D. (Inches)	Weight/Ft. (Pounds)	Wall Thickness (Inches)	From (Feet)	To (Feet)
2"	PVC	SCH 40	0	340'-UPPER
2"	PVC	SCH 40	0	505'-LOWER

Perforations:
Type perforation SLOTTED PVC CASING
Size perforation .020
From UPPER ZONE 320' feet to 340' feet
From feet to feet
From LOWER ZONE 465' feet to 505' feet
From feet to feet
From feet to feet

Surface Seal: ☒ Yes ☐ No
Depth of Seal 0' TO 306', 364' TO 447'
Placement Method: ☒ Pumped BENTONITE ☐ Poured
Seal Type: ☐ Neat Cement ☒ Cement Grout ☐ Concrete Grout
SLOTTED SECTIONS
Gravel Packed: ☒ Yes ☐ No UPPER ZONE: 305.8' TO 364'
From LOWER ZONE: 446.6 feet to 510' feet

9. WATER LEVEL
ARTESIAN FLOW
Static water level UPPER ZONE = 0.8 GPM feet below land surface
Artesian flow LOWER ZONE = 36.0 (G.P.M.) P.S.I.
Water temperature °F Quality GOOD

10. DRILLER'S CERTIFICATION
This well was drilled under my supervision and the report is true to the best of my knowledge.
Name JON W. WILSON (Contractor)
Address 160 N. STEPHANIE ST. (Contractor)
HENDERSON, NV 89074
Nevada contractor's license number issued by the State Contractor's Board
Nevada driller's license number issued by the Division of Water Resources, the on-site driller F9-2225
Signed (By driller performing actual drilling on site or contractor)
Date 9.27.05

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