M-138

STATE OF NEVADA
DIVISION OF WATER RESOURCES
WELL DRILLER'S REPORT

OFFICE USE ONLY
Log No. 109484
Permit No.
Basin 212

PRINT OR TYPE ONLY
DO NOT WRITE ON BACK

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

NOTICE OF INTENT NO. 34493

1. OWNER Tronox LLC
MAILING ADDRESS PO Box 268859
Oklahoma City, OK 73126 - 8859

ADDRESS AT WELL LOCATION North of Lake Mead PKWY & East of 4th Street
Subdivision Name: County: Clark

2. LOCATION SW ¼ NE ¼ Sec 13 T 22 N/S R 62 E
PERMIT/WAIVER No. 178 13 601 001
Issued by Water Resources Parcel No.

Latitude 36 02 .296
Longitude 115 00 .163
UTM E N
☐ NAD 27 ☒ NAD 83/WGS 84

3. WORKED PERFORMED
☒ New Well ☐ Replace ☐ Recondition
☐ Deepen ☐ Other

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

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

6. LITHOLOGIC LOG

Material	Water Strata	From	To	Thickness
Silty Sand		0	12	12
Sandy Silt		12	46	34
Sandy Silt with Gravels		46	62	16
Silty Sand.		62	65	3

Date started: 7-30, 20 09
Date completed: 8-6, 20 09

7. Water Level
Static water level: 50 feet below land surface
Artesian Flow: G.P.M. P.S.I.
Water Temperature: °F
Quality:

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

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

9. WELL CONSTRUCTION
Depth Drilled 65 Feet Depth Cased 65 Feet

HOLE DIAMETER (BIT SIZE)

		From		To	
6	Inches	0	Feet	65	Feet
	Inches		Feet		Feet
	Inches		Feet		Feet

CASING SCHEDULE

Size O.D. (Inches)	Weight/Ft. (Pounds)	Wall Thickness (Inches)	From (Feet)	To (Feet)
2.375	.69	.154	+3	50

Perforations:
Type of perforation Factory Slot
Size of perforation .020
From 50 feet to 65 feet
From feet to feet
From feet to feet
From feet to feet
From feet to feet

Annular Seal: ☒ Yes ☐ No
☐ Neat Cement to ☐ Pumped ☐ Poured
☐ Cement Grout to ☐ Pumped ☐ Poured
☒ Concrete Grout 0 to 3 ☐ Pumped ☒ Poured
☒ ≥30% Bentonite Grout 3 to 36 ☒ Pumped ☐ Poured

Gravel Pack: ☒ Yes ☐ No 40 to 65 ☐ Pumped ☒ Poured
Type: 10-20
Bentonite Chips: ☒ Yes ☐ No 36 to 40 ☐ Pumped ☒ Poured
Type: 3/8 Chips

10. DRILLER'S CERTIFICATION
This well was drilled under my supervision and the report is true to the best of my knowledge.
Name Boart Longyear Company (Contractor)
Address 7773 W Seldon Ln (Contractor)
Peoria, Az 85345
Nevada contractor's license number issued by the State Contractor's Board 0010157
Nevada driller's license number issued by the Division of Water Resources, the on-site driller M-2147
Signed (By driller performing actual drilling on-site or contractor)
Date 9-2-09

(Rev. 05-06) USE ADDITIONAL SHEETS IF NECESSARY

(NSPO 3-08) (O) 627