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

OFFICE USE ONLY
Log No. 11555.3
Permit No.
Basin 101

**PRINT OR TYPE ONLY**
**DO NOT WRITE ON BACK**

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

NOTICE OF INTENT NO. 62479

1. OWNER U.S. Navy MW-25
MAILING ADDRESS 4755 Pasture Road, Fallon Nv. 89496
ADDRESS AT WELL LOCATION NAS Fallon Nv.
4755 Pasture Road, Fallon Nv. 89496

2. LOCATION NW ¼ SE ¼ Sec 23 T 18N N/S R 29 E
PERMIT/WAIVER No. 006-611-01
Issued by Water Resources Parcel No.
Latitude 39. 242720
Longitude 118. 414918
Subdivision Name: N/A
UTM E 2592506.21 ☐ NAD 27
N 14818830.66 ☑ NAD 83/WGS 84
County: Churchill

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..Auger

6. LITHOLOGIC LOG

| Material | Water Strata | From | To | Thickness |
|---|---|---|---|---|
| Silty sand, brown fine to medium | no | 0 | 3 | 3 |
| Sand, brown fine to very fine | no | 3 | 8 | 5 |
| Silty clay, brown | no | 8 | 10 | 2 |
| Clayey sand, brown | yes | 10 | 13 | 3 |
| Clay, brown | no | 13 | 15 | 2 |
| Silty sand, brown fine to medium | yes | 15 | 20 | 5 |
| Clay, brown | no | 20 | 21 | 1 |

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Date started 30-Jan , 20 12
Date completed 30-Jan , 20 12

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

| G.P.M. | Draw Down (Feet Below Static) | Time (Hours) |
|---|---|---|
| | 39.407637°N | NAD 27 |
| | 118.696013°W | |

8. WELL CONSTRUCTION
Depth Drilled 21 Feet Depth Cased 21 Feet

HOLE DIAMETER (BIT SIZE)

| | From | To |
|---|---|---|
| 8 Inches | 0 Feet | 21 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 | | .152 | 0 | 11 |

Perforations:
Type of perforation mill slot
Size of perforation 0.01
From 11 feet to 21 feet
From feet to feet
From feet to feet
From feet to feet
From feet to feet

Surface Seal: ☑ Yes ☐ No
Depth of Seal 10
Placement Method: ☐ Pumped ☑ Poured
Seal Type: ☑ Neat Cement ☐ Cement Grout ☐ Concrete Grout
Gravel Packed: ☑ Yes ☐ No
From 10 feet to 21 feet

9. WATER LEVEL
Static water level 8 feet below land surface
Artesian flow G.P.M P.S.I
Water temperature °F Quality

10. DRILLER'S CERTIFICATION
This well was drilled under my supervision and the report is true to the best of my knowledge.
Name WDC Exploration & Wells (Contractor)
Address PO Box 141 Zamora, Ca. 95698 (Contractor)
Nevada contractor's license number issued by the *State Contractor's Board* 0012852
Nevada driller's license number issued by the Division of Water Resources, the *on-site driller* 2111-T1
Signed (By driller performing actual drilling on site or contractor)
Date 3/6/2012

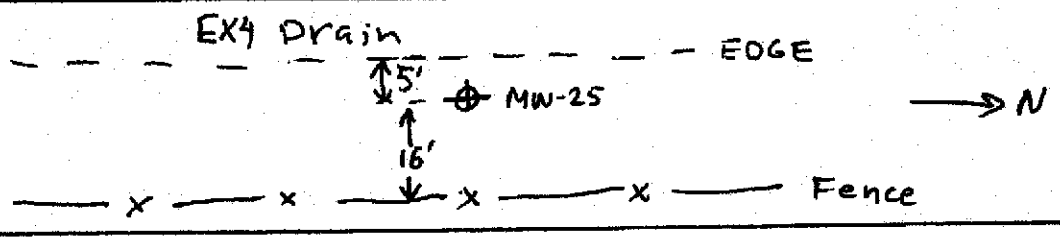
(Rev. 06/10)
**USE ADDITIONAL SHEETS IF NECESSARY**

TETRA TECH EM INC.

# SOIL BORING AND WELL INSTALLATION AND VISUAL CLASSIFICATION LOG

DO:
Bldg./Site: 16
Project Name: NAS FALLON TCRA

| | |
|---|---|
| Boring Number: TT16-MW25 | Date Started: 1/30/12 |
| Drilling Method: (*Circle one*) HSA Continuous Core/Direct Push/Hand Auger | Date Completed: 1/30/12 |
| Air Rotary/Mud Rotary/Dual Tube Percussion/Sonic/Vacuum | Logged By: V. PRICEPIN |
| Outer Diameter of Boring: 8" | Drilling Subcontractor: WDC Exploration |
| Inner Diameter of Well Casing: 2" | Driller: GARY WHITNEY |
| Depth to Water (ft./bgs.) ~10' | Location Sketch: |




| Time | Depth (ft) bgs | Drive Interval | Recovered Interval | Sample ID | Blow count (per 6 inches) / V.S. utility type, dia. | Description | USCS soil symbol | Well construction | OVM (ppm) |
|---|---|---|---|---|---|---|---|---|---|
| | 2 | | 10b | | | 0-5' Hand augered<br>Silty SAND, brown, 7.5YR 4/4, fine to medium grained; 65% sand, 35% silt, dry | SM | | |
| | 4 | | | | | | | | |
| | 6 | | 10b | | | 5-8' fine to very fine sand/silt mixture w/ clay nodules; brown 7.5YR 4/2; 50% sand, 30% silt, 20% clay, nodules are plastic; getting damp at ~8'. | SM/ML | | 0 |
| | 8 | | | | | 8-9.5' silty clay, brown, low to moderate plasticity, stiff at 9.5, wet | CL | | |
| | 10 | | | | | 9.5'-13' fine, clayey SAND, saturated<br>water at ~10 | | | |

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TETRA TECH EM INC.

# SOIL BORING AND WELL INSTALLATION AND VISUAL CLASSIFICATION LOG

TT16-MW25 (cont.)

DO:
Bldg./Site: 16
Project Name: NASFALLONTCRA

| Time | Depth (ft) bgs | Drive Interval | Recovered Interval | Sample ID | Blow count (per 6 inches) / V.O. utility type, etc. | Description | USCS soil symbol | Well construction | OVM (ppm) |
|---|---|---|---|---|---|---|---|---|---|
| | | | 100 | | | clayey SAND, brown 7.5Y 4/2, silty clay at 12.5', high plasticity, w/ mica 0.1mm | SC | | |
| | 12 | | | | | | ~~SCC~~ CL | | |
| | | | | | | | CL | | |
| | 14 | | 80 | | | 13-14.5' CLAY, brown 7.5YR 4/3, stiff, moderate plasticity, damp | SM | | 0 |
| | 16 | | | | | 14.5-18' silty SAND, brown, saturated, fine to medium grained, w/ mica up to 1mm | | | |
| | 18 | | | | | 18-20' silty sand, brown 7.5YR 5/3, fine to medium grained, w/ mica, saturated; contact w/ clay at 19.5' | | | 0 |
| | 20 | | | | | 20-21' CLAY, brown, 7.5YR 5/3, high to moderate plasticity, sticky; wet | CL | | |
| | 21 | | | | | TD of boring 21' bgs | | | |

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# MONITORING WELL COMPLETION RECORD

TETRATECH EM INC

## MONITORING WELL

MONITORING WELL NO.: TT16-MW25
PROJECT: TCRA
SITE: FALLON, SITE 16
BOREHOLE NO.:
WELL PERMIT NO.:
TOC TO BOTTOM OF WELL:

## DRILLING INFORMATION

DRILLING BEGAN:
DATE: 1/30/12 TIME: 2:00 pm
WELL INSTALLATION BEGAN:
DATE: 1/30/12 TIME: 3:10 pm
WELL INSTALLATION FINISHED:
DATE: 1/30/12 TIME: 4:10 pm
DRILLING CO.: WDC
DRILLER: Chris, GARY
LICENSE:
DRILL RIG: HSA CMI-85
DRILLING METHOD:
■ HOLLOW STEM AUGER
☐ AIR ROTARY
☐ OTHER:
DIAMETER OF AUGERS:
ID: OD: 8"

## WELL CASING

■ SCHEDULE 40 PVC
☐ OTHER:
PRODUCT:
MFG. BY:
CASING DIAMETER:
ID: OD: 2"
LENGTH OF CASING:

## WELL SCREEN

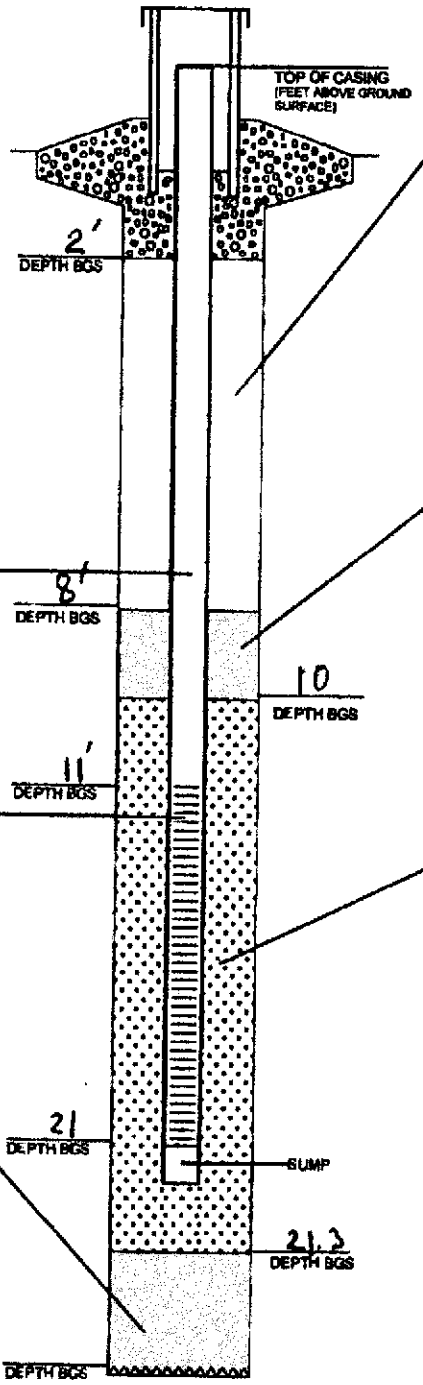
■ SCHEDULE 40 PVC
☐ OTHER:
PRODUCT:
MFG. BY:
CASING DIAMETER:
ID: OD: 2"
SLOT SIZE: 0.02
LENGTH OF SCREEN: 10'

## BOREHOLE BACKFILL

AMOUNT CALCULATED:
AMOUNT USED:
☐ BENTONITE CHIPS, SIZE:
☐ BENTONITE PELLETS, SIZE:
☐ SLURRY:
■ FORMATION COLLAPSE:
☐ OTHER:
PRODUCT:
MFG. BY:
METHOD INSTALLED:
☐ POURED ☐ TREMIE
☐ OTHER:

## SURFACE COMPLETION

■ FLUSH MOUNT
☐ ABOVE GROUND WITH BUMPER POST
☐ CONCRETE ☐ ASPHALT




## SURVEY INFORMATION

TOC ELEVATION:
GROUND SURFACE ELEVATION:
NORTHING:
EASTING:
DATE SURVEYED:
SURVEY CO.:

## ANNULAR SEAL

VOLUME CALCULATED:
AMOUNT USED: 14 gal
■ GROUT FORMULA (PERCENTAGES)
PORTLAND CEMENT: 95% 2 bags 50 lbs.
BENTONITE: 5%
WATER: ~7 gal
☐ PREPARED MIX
PRODUCT:
MFG. BY:
METHOD INSTALLED:
■ POURED ☐ TREMIE
☐ OTHER:

## BENTONITE SEAL

VOLUME CALCULATED:
AMOUNT USED: 1 bag 50 lbs
☐ PELLETS, SIZE:
■ CHIPS, SIZE:
■ OTHER: MEDIUM CHIPS
PRODUCT: PUREGOLD
MFG. BY: CETCO
METHOD INSTALLED:
■ POURED ☐ TREMIE
☐ OTHER:
AMOUNT OF WATER USED: 5 gal

## FILTER PACK

☐ PREPACKED FILTER
VOLUME CALCULATED:
AMOUNT USED: 7 bags 50 lbs 1
■ SAND, SIZE: #2/12
PRODUCT: CEMEX
MFG. BY:
METHOD INSTALLED:
■ POURED ☐ TREMIE
☐ OTHER:
WATER LEVEL: 8.18 2/1/12
(BTOC AFTER WELL INSTALLATION)

## CENTRALIZERS USED?

☐ YES ■ NO
CENTRALIZER DEPTHS:

**LEGEND**

BGS = BELOW GROUND SURFACE
BTOC = BELOW TOP OF CASING
N/A = NOT APPLICABLE
NR = NOT RECORDED
TOC = TOP OF CASING

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