STATE OF NEVADA
DIVISION OF WATER RESOURCES

WELL DRILLER'S REPORT

OFFICE USE ONLY
Log No. 115543
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. 66871

1. OWNER U.S. Navy IW-17
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. 41 49 18
Subdivision Name: n/a

UTM E 2592581.91
N 14818748.62
☐ NAD 27
☑ NAD 83/WGS 84
County: Churchill

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

4. PROPOSED USE Injection
☐ 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	no	0	1	1
Clay,dark dark brown	no	1	3	2
Silty sand,dark brown	no	3	7	4
Clay,brown	no	7	8	1
Silty sand,brown	yes	8	10	2
Clayey silt,brown	no	10	12	2
Silty sand,brown	yes	12	15	3
Clay,brown	no	15	17	2

Date started 6-Feb , 20 12
Date completed 6-Feb , 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	NAD27
	118.696013°W	

8. WELL CONSTRUCTION
Depth Drilled 17 Feet Depth Cased 15 Feet

HOLE DIAMETER (BIT SIZE)

	From	To
8 Inches	0 Feet	17 Feet
Inches	Feet	Feet
Inches	Feet	Feet

CASING SCHEDULE

Size O.D. (Inches)	Weight/Ft. (Pounds)	Wall Thickness (Inches)	From (Feet)	To (Feet)
1/2		stainless steel	0	14
1/2		stainless steel	0	11

Perforations:
Type of perforation 1 " stainless steel wire wrap
Size of perforation 0.01
From 14 feet to 15 feet
From 11 feet to 12 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
Gravel Packed: ☑ Yes ☐ No
From 10 feet to 17 feet

Seal Type:
☑ Neat Cement
☐ Cement Grout
☐ Concrete Grout

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

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

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(Rev. 06/10)

USE ADDITIONAL SHEETS IF NECESSARY

Log # 115543

Sheet 1 of 2

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 - IW 17	Date Started: 2/6/12
Drilling Method: (Circle one) HSA Continuous Core/Direct Push/Hand Auger	Date Completed: 2/6/12
Air Rotary/Mud Rotary/Dual Tube Percussion/Sonic/Vacuum	Logged By: V. PRILEPIN
Outer Diameter of Boring: 8"	Drilling Subcontractor: WDC Expl. & Wells
Inner Diameter of Well Casing: 0.5" and 0.5"	Driller: GARY WHITNEY
Depth to Water (ft./bgs.)	Location Sketch:

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Time	Depth (ft) bgs	Drive Interval	Recovered Interval	Sample ID	V.S. utility type, etc. / Blow count (per 6 inches)	Description	USCS soil symbol	Well construction	OVM (ppm)
10:50	2		75			0-5 HAND AUGERED 0-1 silty sand, dry, loose 1-3.5, clay, dark brown, 7.5YR 3/3, med stiff to med. stiff., med. to low plasticity, dry, grading to sandy clay at 3.3' 80% clay, 20% sand 100% clay.	SM CL		
	4					3.5-7.5 silty sand to fine sand, dark brown, 7.5YR 3/3, w/ tiny mica; becoming wet at ~7'. very fine to fine, with a bed of submedium grained sand, loose; sand 90-60%, silt 10-30%, clay 10-20%.	SM/SP		
	6		50						
	8					7.5-8 clay, brown, 7.5YR 4/4, micaceous, medium stiff, low plasticity, 100% clay 8-10.5 silty sand, (only partly retrieved) brown, mica up to 1mm, wet, 70% sand, 30% silt	CL SM		grouted
	10		70						

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Lg # 115543

Sheet 2 of 2

TETRA TECH EM INC.

SOIL BORING AND WELL INSTALLATION AND VISUAL CLASSIFICATION LOG

TT16 - IW17

DO:

Bldg./Site: 16

Project Name: NAS FALLON TCRA

Time	Depth (ft) bgs	Drive interval	Recovered interval	Sample ID	Blow count (per 6 inches) / V.O. utility type, dia.	Description	USCS soil symbol	Well construction	OVM (ppm)
	12		70			10.5 - 11.3, silty clay. brown 7.5YR4/3, soft micaceous, becomes stiff at ~ 11. 80% clay, 20 silt	SM CL	#16 Sand	10 11 12
						11.3 - 15, silty sand, d. brown 7.5YR 3/3, very fine to fine, micaceous, mica to 0.5mm wet to saturated, 80% sand, 20 silt	SM		12.2 B.S. 13.7
	14		90			15 - 17 Clay, strongly brown, 7.5YR 4/6, wet to dry, some plasticity; easily crumbles, soft to med. soft	CL	#16 Sand	14 15 B.chips
	16								
	18					TD. 17'			

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INJECTION ~~MONITORING~~ WELL COMPLETION RECORD

Log #115543

TETRATECH EM INC

MONITORING WELL

MONITORING WELL NO.: TT16-DW17
PROJECT: NAS FALLON TCRA
SITE: 16
BOREHOLE NO.:
WELL PERMIT NO.:
TOC TO BOTTOM OF WELL:

DRILLING INFORMATION

DRILLING BEGAN:
DATE: 2/6/12 TIME: 10:50
WELL INSTALLATION BEGAN:
DATE: 2/6/12 TIME: 11:25
WELL INSTALLATION FINISHED:
DATE: 2/6/12 TIME: 12:40
DRILLING CO.: WDC
DRILLER: GARY WHITLEY
LICENSE:
DRILL RIG: HSA CME-85
DRILLING METHOD:
- ☒ HOLLOW STEM AUGER
- ☐ AIR ROTARY
- ☐ OTHER:

DIAMETER OF AUGERS:
ID: OD: 8"

WELL CASING

- ☐ SCHEDULE 40 PVC
- ☒ OTHER:

PRODUCT: SS 316
MFG. BY: APT WATER
CASING DIAMETER:
ID: OD: 0.5"
LENGTH OF CASING:

WELL SCREEN

- ☐ SCHEDULE 40 PVC
- ☒ OTHER:

PRODUCT: SS 316
MFG. BY:
CASING DIAMETER:
ID: OD: 0.5"
SLOT SIZE: 0.01
LENGTH OF SCREEN: 1' (both screens)

BOREHOLE BACKFILL

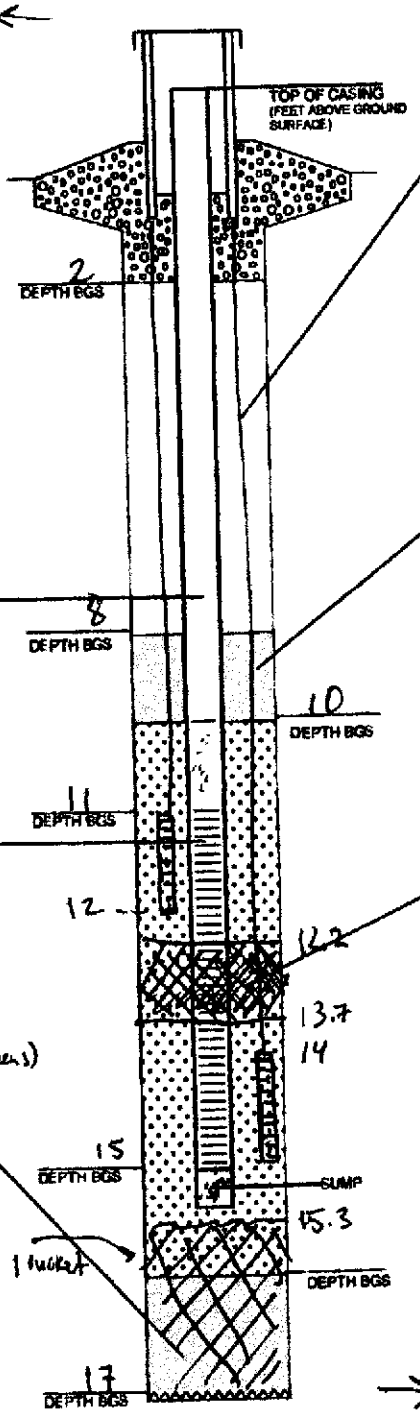
AMOUNT CALCULATED:
AMOUNT USED:
- ☐ BENTONITE CHIPS, SIZE:
- ☒ BENTONITE PELLETS, SIZE: 1/4", coated
- ☐ SLURRY:
- ☐ FORMATION COLLAPSE:
- ☐ OTHER:

PRODUCT:
MFG. BY:
METHOD INSTALLED:
- ☒ POURED
- ☐ TREMIE
- ☐ OTHER:

SURFACE COMPLETION

- ☒ FLUSH MOUNT
- ☐ ABOVE GROUND WITH BUMPER POST
- ☐ CONCRETE
- ☐ ASPHALT

N



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SURVEY INFORMATION

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

ANNULAR SEAL

VOLUME CALCULATED:
AMOUNT USED: 12 gal
- ☒ GROUT FORMULA (PERCENTAGES)
  - PORTLAND CEMENT: 95%
  - BENTONITE: 5%
  - WATER:
- ☐ PREPARED MIX
  - PRODUCT:
  - MFG. BY:

METHOD INSTALLED:
- ☒ POURED
- ☐ TREMIE
- ☐ OTHER:

BENTONITE SEAL

50 lbs bag

VOLUME CALCULATED:
AMOUNT USED: 1 bag (upper), 1 bag (lower)
- ☐ PELLETS, SIZE:
- ☒ CHIPS, SIZE: MEDIUM
- ☐ OTHER:

PRODUCT: PUREGOLD
MFG. BY: CETCO
METHOD INSTALLED:
- ☒ POURED
- ☐ TREMIE
- ☐ OTHER:

AMOUNT OF WATER USED:

FILTER PACK

50 lbs bag

- ☐ PREPACKED FILTER

VOLUME CALCULATED:
AMOUNT USED: 1.5 upper, 1.5 bag (lower)
- ☒ SAND, SIZE: #16

PRODUCT: SUPREME SAND
MFG. BY: SILICA RESOURCES Inc.
METHOD INSTALLED:
- ☒ POURED
- ☐ TREMIE
- ☐ OTHER:

WATER LEVEL:
(BTOC AFTER WELL INSTALLATION)

CENTRALIZERS USED?

- ☐ YES
- ☒ NO:

CENTRALIZER DEPTHS:

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LEGEND

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