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

OFFICE USE ONLY
Log No. 115537
Permit No.
Basin 101

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

NOTICE OF INTENT NO. 62168

1. OWNER U.S. Navy IW-11
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 2592581.91 N 14818793.62
☐ NAD 27 ☑ NAD 83/WGS 84
County: Churchill

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

4. X Injection 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	no	0	2	2
Clay,dark brown	no	2	4	2
Sand,brown	yes	4	9	5
Clayey sand,brown	yes	9	12	3
Silty clay,clay,brown	no	12	14	2
Fine silty sand,brown	yes	14	15	1
Slity clay,brown	yes	15	16	1
Clay,brown	no	16	19	3

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Date started 5-Feb , 20 12
Date completed 5-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 19 Feet Depth Cased 15 Feet

HOLE DIAMETER (BIT SIZE)

	From	To
8 Inches	0 Feet	19 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	10

Perforations:
Type of perforation 1" stainless steel wire wrap
Size of perforation 0.01
From 14 feet to 15 feet
From 10 feet to 11 feet
From feet to feet
From feet to feet
From feet to feet

Surface Seal: ☑ Yes ☐ No
Depth of Seal 9
Placement Method: ☐ Pumped ☑ Poured
Gravel Packed: ☑ Yes ☐ No
From 9 feet to 19 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

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

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Sheet 1 of 2

DO:
Bldg./Site:
Project Name:

TETRA TECH EM INC.

SOIL BORING AND WELL INSTALLATION AND VISUAL CLASSIFICATION LOG

Boring Number: TT16 - IW11	Date Started: 2/5/12
Drilling Method: (Circle one) HSA Continuous Core/Direct Push/Hand Auger	Date Completed: 2/5/12
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 WHITLEY
Depth to Water (ft./bgs.)	Location Sketch:

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Time	Depth (ft) bgs	Drive Interval	Recovered Interval	Sample ID	Blow count (per 6 inches) / V.B. utility type, dia.	Description	USCS soil symbol	Well construction	OVM (ppm)
12:35						0-5 HAND AUGERED	SM		
						0-2 silty sand, brown, very fine to fine, loose, dry, 85 sand, 15 silt			
	2		70			2-3.5 clay, dark brown 7.5YR 3/3, soft, medium plasticity, dry	CL		
	4					3.5-8.5 sand, fine to sub medium grained, light colored plagioclase grains, micaceous, saturated at 7.5', loose	SP	grout	
	6		50						
	8								7
						8.5-9 sandy/silty clay, brown, 7.5YR 4/3 soft, micaceous, damp	CL		8.5
							SM		9
	10	X	50			9-11.5 sandy, clayey sand, loose, saturated	SC		10

S:\AECRU\Hunters Point Shipyard\DO 0019 (PLOB X027)\WE2-Plans\Draft SAP\for Angela\appendices\Appendix C\04. Soil Boring and Well Installation Log.doc

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Sheet 2 of 2

TETRA TECH EM INC.

SOIL BORING AND WELL INSTALLATION AND VISUAL CLASSIFICATION LOG

TT16-IW11

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.S. utility type, etc.	Description	USCS soil symbol	Well construction	OVM (ppm)
						silty, clayey sand (interval not recovered)	SM/SC		10 11 11.4
	12		50			11.5-13.5 silty clay to clay, brown 7.5YR 4/3, w/ tiny mica, soft & wet to stiff & dry, low plasticity	CL		13
	14					13.5-15 very fine to fine silty sand, brown 7.5YR 4/2, saturated, w/ tiny mica, 85% sand, 15% silt (+ clay).	SM		14
	16		85			15-16 silty clay, brown, 7.5YR 4/3, saturated, w/ tiny mica, soft, sticky; 80% clay, 20 silt	CL		15
	18					16-19 clay, strongly brown, 7.5YR 4/6, wet to dry, soft, easily crumbles; with discoloration due to organics (?)			B.chips
	19					T.D. 19			

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INJECTION

~~MONITORING~~ WELL COMPLETION RECORD

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TETRATECH EM INC

MONITORING WELL

~~MONITORING~~ WELL NO.: TT16-IW11
PROJECT: NAS FALLON TCRA
SITE: 16
BOREHOLE NO.:
WELL PERMIT NO.:
TOC TO BOTTOM OF WELL:

DRILLING INFORMATION

DRILLING BEGAN:
DATE 2/5/12 TIME: 12:35
WELL INSTALLATION BEGAN:
DATE 2/5/12 TIME: 13:05
WELL INSTALLATION FINISHED:
DATE 2/5/12 TIME: 14:25
DRILLING CO.: WDC
DRILLER: GARY WHITLEY
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: SS 316
MFG. BY:
CASING DIAMETER:
ID: OD: 0.5"
LENGTH OF CASING:

WELL SCREEN

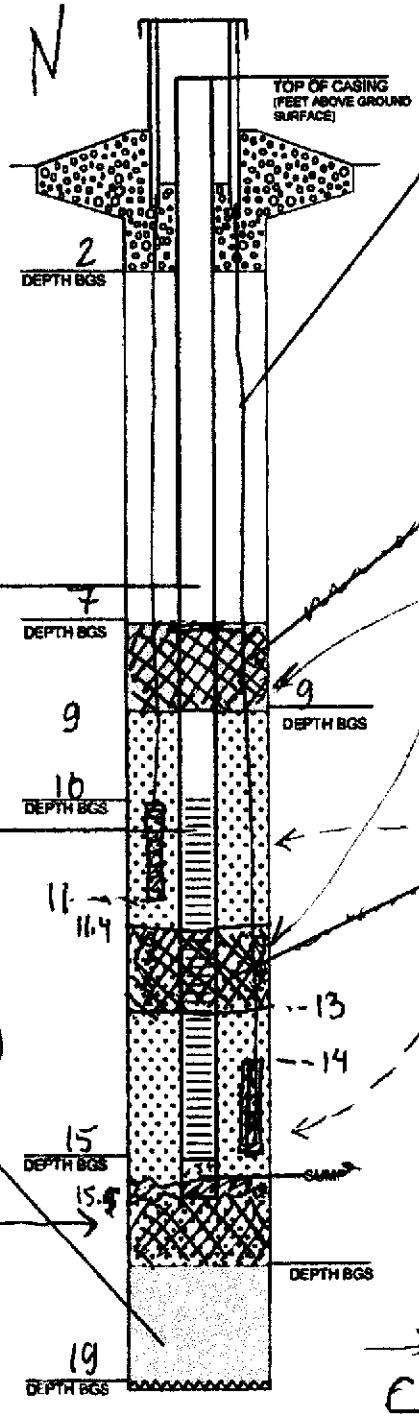
☐ SCHEDULE 40 PVC
■ OTHER:
PRODUCT: SS 316
MFG. BY:
CASING DIAMETER:
ID: OD: 0.5
SLOT SIZE: 0.01
LENGTH OF SCREEN: 1' (both screens)

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



SURVEY INFORMATION

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

ANNULAR SEAL

VOLUME CALCULATED:
AMOUNT USED: ~10 gal
■ GROUT FORMULA (PERCENTAGES)
PORTLAND CEMENT:
BENTONITE:
WATER:
☐ PREPARED MIX
PRODUCT:
MFG. BY:
METHOD INSTALLED:
■ POURED ☐ TREMIE
☐ OTHER:

BENTONITE SEAL

VOLUME CALCULATED:
AMOUNT USED: 2 bags for both
■ ~~PELLETS, SIZE: 1/4" coated~~
■ CHIPS, SIZE: MEDIUM
☐ OTHER:
PRODUCT: PUREGOLD
MFG. BY: CETCO
METHOD INSTALLED:
■ POURED ☐ TREMIE
☐ OTHER:
AMOUNT OF WATER USED:

FILTER PACK

☐ PREPACKED FILTER
VOLUME CALCULATED:
AMOUNT USED: 2.5 bags (upper), 2 bags (lower)
■ SAND, SIZE: 2/12
PRODUCT: CEMEX
MFG. BY:
METHOD INSTALLED:
■ POURED ☐ TREMIE
☐ OTHER:
WATER LEVEL:
(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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