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

OFFICE USE ONLY
Log No. 115538
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. 62169

1. OWNER U.S. Navy IW-12
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 39.427 20
Longitude 118.449 18
Subdivision Name: n/a
UTM E 2592520.29 ☐ NAD 27
N 14818771.38 ☑ 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,dark brown	no	0	7	7
Clay,dark brown	no	7	9	2
Silty sand, brown	yes	9	12	3
Clayey silt,brown	yes	12	13	1
Silty sand,brown	yes	13	15	2
Silty clay,brown	no	15	16	1
Fine sand,brown	yes	16	18	2

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Date started 3-Feb , 20 12
Date completed 3-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	NAD 27
	118.696013°W	

8. WELL CONSTRUCTION
Depth Drilled 18 Feet Depth Cased 18 Feet

HOLE DIAMETER (BIT SIZE)

	From	To
8 Inches	0 Feet	18 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	17
1/2		stainless steel	0	13

Perforations:
Type of perforation 1" stainless steel wire wrap
Size of perforation 0.01
From 17 feet to 18 feet
From 13 feet to 14 feet
From feet to feet
From feet to feet
From feet to feet

Surface Seal: ☑ Yes ☐ No
Depth of Seal 12
Placement Method: ☐ Pumped ☑ Poured
Gravel Packed: ☑ Yes ☐ No
From 12 feet to.. 18 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 [signature]
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 2 of 2

DO:

Bldg./Site:

Project Name:

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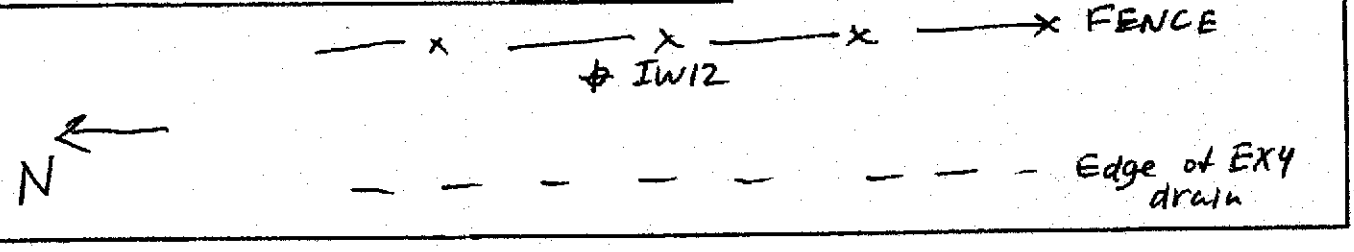
TETRA TECH EM INC.

SOIL BORING AND WELL INSTALLATION AND VISUAL CLASSIFICATION LOG

Boring Number: TT16-IW12	Date Started: 2/3/12
Drilling Method: (Circle one) HSA Continuous Core/Direct Push/Hand Auger	Date Completed: 2/3/12
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:



Time	Depth (ft) bgs	Drive Interval	Recovered Interval	Sample ID	V.B. utility type, dia. / Blow count (per 6 inches)	Description	USCS soil symbol	Well construction	OVM (ppm)
14:00						0-5 HAND augered			
	2		10			0-7.5 silty sand, dark brown 7.5YR 3/4 loose, dry, silt & clay content increases w/depth 70-60% sand, 30-20% silt, 10-30% clay.	SM		
	4								
	6		60						
	8					7.5-8.5 - hard clay, dark brown, 7.5YR 3/3, non-plastic, tiny mica	CL		
	10		70			8.5-12.5 - silty sand, brown, very fine to fine, becomes saturated at ~10.5.	SM		

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Sheet 2 of 2

TETRA TECH EM INC.

SOIL BORING AND WELL INSTALLATION AND VISUAL CLASSIFICATION LOG

TT16-IW12

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.B. utility type, dia.	Description	USCS soil symbol	Well construction	OVM (ppm)
			70			silty sand as above	SM		0
	12					12-13 clayey silt, brown 7.5YR 4/4, soft, w/ tiny mica, wet to saturated; 70-60% silt, 30-40% clay	ML		
	14					13-14.5 silty sand (interval not recovered - loose sand)	SM		0
			70			14.5-16.5 silty clay, brown 7.5YR 4/2, med. soft, low plasticity, w/ tiny mica, dry to moist	CL		
	16					16.5-18 Fine sand, brown, loose, w/mica up to 0.5mm, saturated	SP		0
	17								
	18					18 contact w/ clay: brown, med. plasticity, 100% clay.	CL		
						TD 18'			

10
8 Seal
12
13
14
14.4
13 Seal
16
17
18

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INJECTION
MONITORING WELL COMPLETION RECORD

Log # 115538

TETRATECH EM INC

MONITORING WELL
MONITORING WELL NO.: IT16-IW12
PROJECT: NAS FALLON TCRA
SITE: 16
BOREHOLE NO.:
WELL PERMIT NO.:
TOC TO BOTTOM OF WELL:

DRILLING INFORMATION
DRILLING BEGAN:
DATE: 2/3/12 TIME: 14:00
WELL INSTALLATION BEGAN:
DATE: 2/3/12 TIME: 14:30
WELL INSTALLATION FINISHED:
DATE: 2/3/12 TIME: 15:35
DRILLING CO.: WDC
DRILLER: GARY WHITLEY
LICENSE:
DRILL RIG: HSA CME-85
DRILLING METHOD:
- [x] HOLLOW STEM AUGER
- [ ] AIR ROTARY
- [ ] OTHER:

DIAMETER OF AUGERS:
ID: OD: 8"

WELL CASING
- [ ] SCHEDULE 40 PVC
- [x] OTHER:

PRODUCT: SS 316
MFG. BY: APT WATER
CASING DIAMETER:
ID: OD: 1/2"
LENGTH OF CASING:

WELL SCREEN
- [ ] SCHEDULE 40 PVC
- [x] OTHER:

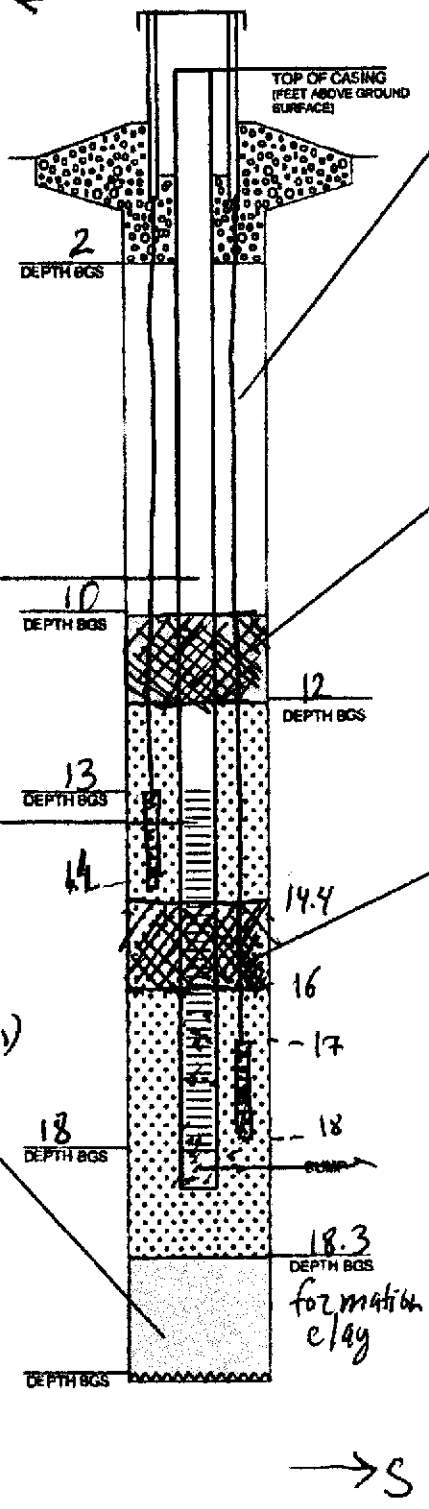
PRODUCT: SS 316
MFG. BY: APT WATER
CASING DIAMETER:
ID: OD: 1/2"
SLOT SIZE: .001
LENGTH OF SCREEN: 1' (2 screens)

BOREHOLE BACKFILL
AMOUNT CALCULATED:
AMOUNT USED:
- [ ] BENTONITE CHIPS, SIZE:
- [ ] BENTONITE PELLETS, SIZE:
- [ ] SLURRY:
- [x] FORMATION COLLAPSE:
- [ ] OTHER:

PRODUCT:
MFG. BY:
METHOD INSTALLED:
- [ ] POURED
- [ ] TREMIE
- [ ] OTHER:

SURFACE COMPLETION
- [x] 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: ~20 gal
- [x] GROUT FORMULA (PERCENTAGES)

PORTLAND CEMENT: 95%
BENTONITE: 5%
WATER:
- [ ] PREPARED MIX

PRODUCT:
MFG. BY:
METHOD INSTALLED:
- [x] POURED
- [ ] TREMIE
- [ ] OTHER:

BENTONITE SEAL
VOLUME CALCULATED: 50 lbs
AMOUNT USED: 1 bag (upper), 1 bucket (lower)
- [x] PELLETS, SIZE: 1/4" Coated (lower)
- [x] CHIPS, SIZE: MEDIUM (upper)
- [ ] OTHER:

PRODUCT: PUREGOLD
MFG. BY: SETCO
METHOD INSTALLED:
- [x] POURED
- [ ] TREMIE
- [ ] OTHER:

AMOUNT OF WATER USED:

FILTER PACK
- [ ] PREPACKED FILTER

VOLUME CALCULATED:
AMOUNT USED: 1.5 bag (upper), 1.5 bag (lower)
- [x] SAND, SIZE: 2/12

PRODUCT: CEMEX
MFG. BY:
METHOD INSTALLED:
- [x] POURED
- [ ] TREMIE
- [ ] OTHER:

WATER LEVEL:
(BTOC AFTER WELL INSTALLATION)

CENTRALIZERS USED?
- [ ] YES
- [x] 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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