page 1 of 2

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

OFFICE USE ONLY
Log No. 113654
Permit No. 80683T
Basin 071

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. 66064

1. OWNER BLACK ELK RANCH / TNT FARMS
MAILING ADDRESS 561 KEYSTONE AVE. # 358
RENO NV, 89503

ADDRESS AT WELL LOCATION GRASS VALLEY RD.
Winnemucca, NV
Subdivision Name: County: Pershing

2. LOCATION NW ¼ NW ¼ Sec 21 T 33N N/S R 38 E
PERMIT/WAIVER No. 80683-T (Issued by Water Resources) Parcel No.

Latitude 40° 43.518 N
Longitude 117° 43.126 W
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

6. LITHOLOGIC LOG

Material	Water Strata	From	To	Thickness
SAND WITH LITTLE CLAY		0'	4'	4'
SAND ,GRAVEL & COBBLES		4'	9'	5'
SAND AND GRAVEL		9'	149'	140'
SAND & GRAVEL SOME CLAY		149'	160'	11'
SAND AND CLAY		160'	180'	20'
SAND AND GRAVEL		180'	195'	15'
SAND & GRAVEL SOME CLAY		195'	205'	10'
SAND AND CLAY		205'	225'	20'
SAND AND GRAVEL		225'	245'	20'
SAND & GRAVEL SOME CLAY		245'	255'	10'
SAND AND GRAVEL		255'	265'	10'
SAND AND CLAY		265'	270'	5'
SAND AND GRAVEL		270'	295'	25'
SAND, GRAVEL & COBBLES		295'	302'	7'
SAND AND GRAVEL		302'	320'	18'
SAND AND CLAY		320'	330'	10'
SAND AND GRAVEL		330'	357'	27'
SAND AND CLAY		357'	375'	18'
SAND AND GRAVEL		375'	407'	32'
SAND,GRAVEL & COBBLES		407'	443'	36'
SAND & GRAVEL SOME CLAY		443'	499'	56'
CEMENTED SAND & GRAVEL		499'	529'	30'
SAND & GRAVEL SOME CLAY		529'	555'	26'
SAND AND CLAY		555'	580'	25'
SAND & GRAVEL SOME CLAY		580'	595'	15'
CLAY WITH SOME SAND		595'	610'	15'

Date started: 16-Mar, 20 11
Date completed: 19-Mar, 20 11

9. WELL CONSTRUCTION
Depth Drilled 690' Feet Depth Cased 680' Feet

HOLE DIAMETER (BIT SIZE)

		From		To	
36"	Inches	0'	Feet	25'	Feet
24"	Inches	25'	Feet	690'	Feet
	Inches		Feet		Feet

CASING SCHEDULE

Size O.D. (Inches)	Weight/Ft. (Pounds)	Wall Thickness (Inches)	From (Feet)	To (Feet)
30"		.250"	0'	25'
16"		.280"	+2'	680'

Perforations:
Type of perforation MILL SLOT
Size of perforation 0.090"

From	230' T.R.	feet to	245'	feet
From	245' D.R.	feet to	270'	feet
From	270' T.R.	feet to	295'	feet
From	295' D.R.	feet to	375'	feet
From	375' T.R.	feet to	415'	feet

Annular Seal: ☒ Yes ☐ No

☐ Neat Cement	0' to 25'	☒ Pumped	☐ Poured
☒ Cement Grout	0' to 100'	☒ Pumped	☐ Poured
☐ Concrete Grout	to	☐ Pumped	☐ Poured
☐ ≥30% Bentonite Grout	to	☐ Pumped	☐ Poured

Gravel Pack: ☒ Yes ☐ No 100' to 690' ☐ Pumped ☒ Poured
Type: BCJ 1/4" X 1/8"
Bentonite Chips: ☐ Yes ☒ No to ☐ Pumped ☐ Poured
Type:

7. Water Level
Static water level: 117' feet below land surface
Artesian Flow: NO G.P.M. 0 P.S.I.
Water Temperature: COOL °F
Quality:

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

	G.P.M.	Draw Down (Feet Below Static)	Time (Hours)
CONSTANT	1,000	113'	8 HOURS

STATE EO:113
2011 APR 18 AM 11:25
RECEIVED

10. DRILLER'S CERTIFICATION
This well was drilled under my supervision and the report is true to the best of my knowledge.
Name Hydro Resources-West, Inc. (Contractor)
Address 4975 W. Winnemucca Blvd. (Contractor)
Winnemucca NV, 89445
Nevada contractor's license number issued by the *State Contractor's Board* 56797
Nevada driller's license number issued by the Division of Water Resources, the *on-site driller* # 2177
Signed Michelle Strother (By driller performing actual drilling on site or contractor)
Date 4/14/11 Contractor Representative

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

40.725394°N NAD27
117.717806°W GPS
MMH-f

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RENO NV, 89503

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Winnemucca, NV
Subdivision Name: County: Pershing

2. LOCATION NW ¼ NW ¼ Sec 21 T 33N N/S R 38 E
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Issued by Water Resources
Parcel No.

Latitude 40* 43.518 N
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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

6. LITHOLOGIC LOG

Material	Water Strata	From	To	Thickness
SAND AND GRAVEL		610'	630'	20'
SAND AND CLAY		630'	648'	18'
SAND AND GRAVEL		648'	665'	17'
SAND WITH SOME CLAY		665'	690'	25'
THERE IS A 3" GRAVEL FEED PIPE FROM +1' - 105'.				

Date started: 16-Mar , 20 11
Date completed: 19-Mar , 20 11

9. WELL CONSTRUCTION
Depth Drilled 690' Feet Depth Cased 680' Feet

HOLE DIAMETER (BIT SIZE)

	From	To
Inches	Feet	Feet
Inches	Feet	Feet
Inches	Feet	Feet

CASING SCHEDULE

Size O.D. (Inches)	Weight/Ft. (Pounds)	Wall Thickness (Inches)	From (Feet)	To (Feet)

Perforations:
Type of perforation MILL SLOT
Size of perforation 0/090"
From 415' D.R. feet to 680' 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 to ☐ Pumped ☐ Poured
☐ ≥30% Bentonite Grout to ☐ Pumped ☐ Poured
Gravel Pack: ☐ Yes ☐ No to ☐ Pumped ☐ Poured
Type:
Bentonite Chips: ☐ Yes ☐ No to ☐ Pumped ☐ Poured
Type:

7. Water Level
Static water level: 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)

STATE ENGINEER'S OFFICE
2011 APR 18 AM 11:25
RECEIVED

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This well was drilled under my supervision and the report is true to the best of my knowledge.
Name Hydro Resources-West, Inc.
Contractor
Address 4975 W. Winnemucca Blvd.
Contractor
Winnemucca NV, 89445
Nevada contractor's license number issued by the *State Contractor's Board* 56797
Nevada driller's license number issued by the Division of Water Resources, the *on-site driller* # 2177
Signed
By driller performing actual drilling on site or contractor
Date

(Rev. 05-06)

USE ADDITIONAL SHEETS IF NECESSARY

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-GPS