

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

OFFICE USE ONLY **110125**  
Log No. \_\_\_\_\_  
Permit No. \_\_\_\_\_  
Basin **179 pg 1 of 3**

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

NOTICE OF INTENT NO. 57166

1. OWNER Sierra Pacific Resources ADDRESS AT WELL LOCATION 12 miles n. of McGill, Nv. 1.5 miles w. of hwy 93  
MAILING ADDRESS 705 Aultman St., Suite 3 Ely, Nevada 89301  
Subdivision Name: Woywood County: White Pine

2. LOCATION NW 1/4 NW 1/4 Sec 20 T 20N N/S R 64 E Latitude 39.5935111 UTM E  NAD 27  
PERMIT/WAIVER No. W-605/75960 010-020-07 Longitude 114.805681 N  NAD 83/WGS 84

Issued by Water Resources Parcel No. \_\_\_\_\_

3. WORKED PERFORMED  
 New Well  Replace  Recondition  
 Deepen  Other

4. PROPOSED USE  
 Domestic  Irrigation  Test  Stock  
 Municipal/Industrial  Monitor

5. WELL TYPE  
 Cable  Rotary  RVC  
 Air  Other

6. LITHOLOGIC LOG

Material	Water Strata	From	To	Thick-ness
well graded sand		0	48	48
silty sand		48	90	42
poorly graded sand		90	100	10
well graded sand		100	110	10
clay sand		110	120	10
poorly graded sand		120	130	10
clay sand		130	160	30
silty sand		160	170	10
poorly graded gravel		170	180	10
clay sand		180	300	120
well graded sand		300	330	30
clay sand		330	340	10
poorly graded sand		340	370	30
fat clay		370	380	10
poorly graded sand		380	400	20
clay sand		400	420	20
silty sand		420	440	20
clay sand		440	460	20
fat clay		460	470	10
clay sand		470	480	10
fat clay		480	500	20
silty sand		500	520	20
fat clay		520	550	30
sandy clay		550	590	40
fat clay		590	640	50

9. WELL CONSTRUCTION

Depth Drilled 1,170 Feet Depth Cased 1,160 Feet

HOLE DIAMETER (BIT SIZE)

From	To	From	To
36	Inches	0	Feet
26	Inches	40	Feet

CASING SCHEDULE

Size O.D. (Inches)	Weight/Ft. (Pounds)	Wall Thickness (Inches)	From (Feet)	To (Feet)
16		.312	0	180
16		.312	200	320
16		.312	480	560

Perforations:

Type of perforation louvered  
Size of perforation 0.0625

From	To	From	To
180	feet to	200	feet
320	feet to	480	feet
560	feet to	760	feet
960	feet to	1,140	feet

Annular Seal:  Yes  No

Neat Cement 0 to 66  Pumped  Poured  
 Cement Grout to  Pumped  Poured  
 Concrete Grout to  Pumped  Poured  
 ≥30% Bentonite Grout to  Pumped  Poured

Gravel Pack:  Yes  No 140 to 1170  Pumped  Poured  
Type: 6x16 TACNA

Bentonite Chips:  Yes  No 66 to 140  Pumped  Poured  
Type: 3/8 MI Swaco

Date started: 25-Jul, 2007  
Date completed: 13-Aug, 2007

7. Water Level ABOVE  
Static water level: 15 feet below land surface  
Artesian Flow: 200 G.P.M. 6.5 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)
pumped	1500	101	96
<u>39.5935345°N</u>			
<u>114.8048224°W</u>		<u>NAD 27 (N)</u>	

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 1200 W. San Pedro Street Contractor  
Gilbert, Arizona 85233

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 1616

Signed Scott Campbell  
By driller performing actual drilling on site or contractor  
Date 8-20-07

(Rev. 03-00)

USE ADDITIONAL SHEETS IF NECESSARY

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

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Log No. 110125  
Permit No. \_\_\_\_\_  
Basin 179 pg det 3

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NOTICE OF INTENT NO. 57166

1. OWNER Sierra Pacific Resources  
MAILING ADDRESS 705 Aultman St., Suite 3  
Ely, Nevada 89301

ADDRESS AT WELL LOCATION 12 miles n. of McGill, Nv. 1.5 miles w. of  
hwy 93

Subdivision Name: Woywood County: White Pine

Latitude 39.593540 UTM E  NAD 27  
Longitude 114.805630 N  NAD 83/WGS 84

2. LOCATION NW 1/4 NW 1/4 Sec 20 T 20N N/S R 64 E  
PERMIT/WAIVER No. 010-020-07 Parcel No. \_\_\_\_\_

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	Thick-ness
silty sand		640	730	90
clay sand		730	750	20
silty sand		750	790	40
sandy silt		790	830	40
poorly graded sand		830	850	20
silty sand		850	900	50
sandy silt		900	950	50
clay sand		950	970	20
poorly graded sand		970	990	20
clay sand		990	1010	20
poorly graded sand		1010	1020	10
clay sand		1020	1040	20
well graded sand		1040	1050	10
clay sand		1050	1070	20
poorly graded sand		1070	1080	10
fat clay		1080	1090	10
silty sand		1090	1120	30
fat clay		1120	1130	10
clay sand		1130	1140	10
silty sand		1140	1170	30

9. WELL CONSTRUCTION

Depth Drilled 1,170 Feet Depth Cased 1,160 Feet

HOLE DIAMETER (BIT SIZE)

	From	To		
	36	0	Feet	40
	26	40	Feet	1,170

CASING SCHEDULE

Size O.D. (Inches)	Weight/Ft. (Pounds)	Wall Thickness (Inches)	From (Feet)	To (Feet)
16		.312	760	960
16		.312	1,140	1,160

Perforations:

Type of perforation louvered  
Size of perforation 0.0625

From	feet to	
180	200	feet
320	480	feet
560	760	feet
960	1,140	feet

Annular Seal:  Yes  No

Neat Cement 0 to 66  Pumped  Poured  
 Cement Grout to  Pumped  Poured  
 Concrete Grout to  Pumped  Poured  
 ≥30% Bentonite Grout to  Pumped  Poured

Gravel Pack:  Yes  No 140 to 1170  Pumped  Poured  
Type: 6x16 TACNA

Bentonite Chips:  Yes  No 66 to 140  Pumped  Poured  
Type: 3/8 MI Swaco

7. Water Level ABOVE  
Static water level: 15.1 feet below land surface  
Artesian Flow: 200 G.P.M. 6.5 P.S.I.  
Water Temperature: \_\_\_\_\_ °F  
Quality: \_\_\_\_\_

8. WELL TEST DATA

TEST METHOD:  Bailor  Pump  Air Lift

	G.P.M.	Draw Down (Feet Below Static)	Time (Hours)
pumped	1500	101	96

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 1200 W. San Pedro Street  
Contractor

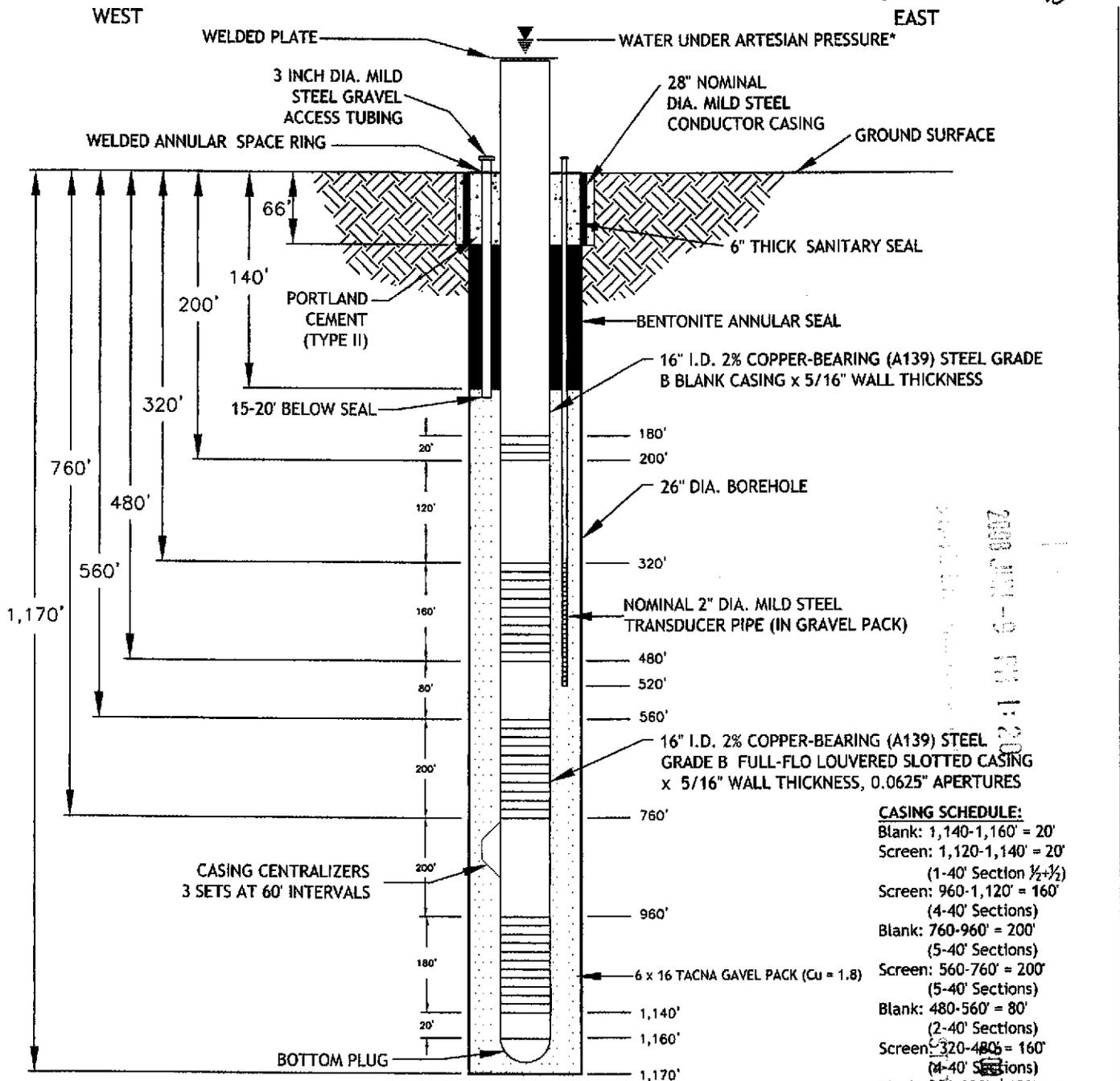
Gilbert, Arizona 85233

Nevada contractor's license number NO 0012852  
issued by the State Contractor's Board

Nevada driller's license number issued by the Division of Water Resources, the on-site driller 1616

Signed Scott Campbell  
By driller performing actual drilling on site or contractor

Date 8-20-07



**CASING SCHEDULE:**

Blank:	1,140-1,160' = 20'
Screen:	1,120-1,140' = 20'
	(1-40' Section 1/2 + 1/2)
Screen:	960-1,120' = 160'
	(4-40' Sections)
Blank:	760-960' = 200'
	(5-40' Sections)
Screen:	560-760' = 200'
	(5-40' Sections)
Blank:	480-560' = 80'
	(2-40' Sections)
Screen:	320-480' = 160'
	(4-40' Sections)
Blank:	200-320' = 120'
	(3-40' Sections)
Screen:	180-200' = 20'
Blank:	160-180' = 20'
	(1-40' Section 1/2 + 1/2)
Blank:	0-160' = 160'
	(4-40' Sections)

**WW-1 TEST WELL AS-BUILT**

**ELY ENERGY CENTER**  
 Steptoe Valley - Woywood Ranch  
 White Pine County, Nevada

Scale	N.T.S.	File No.	WW-1-AB-1
Date	08/14/07	Project No.	06-33159-02
Drafted By	GRD	Drawing No.	
Checked By	JMD		
Approved By			



Over 60 Years of Dedication  
 in Engineering and  
 Environmental Sciences