

PRINT OR TYPE ONLY
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WELL DRILLER'S REPORT

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

NOTICE OF INTENT NO. 21648

1. OWNER REPUBLIC DUMPRO INC ADDRESS AT WELL LOCATION SUNRISE LANDFILL
 MAILING ADDRESS 7900 E VEGAS VALLEY LAS VEGAS, NV 89122

2. LOCATION SE 1/4 SW 1/4 Sec. 12 T. 21 N/S R. 62 E CLARK County
 PERMIT NO. APN 161-12-002 Issued by Water Resources Parcel No. Subdivision Name

3. WORK PERFORMED
 New Well Replace Recondition
 Deepen Abandon Other

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

5. WELL TYPE
 Cable Rotary RVC
 Air Other

41W12B2 LITHOLOGIC LOG

Material	Water Strata	From	To	Thick-ness
sand, silt gravel		0	1	1.0'
light reddish brown silty sand with gravel		1	5	4.0'
pale brown gravel with silty sand		5	10	5.0'
pink gravel with silty sand - poor sorting		10	25	15.0'
pink silty sand with gravel		25	30	5.0'
light reddish brown silty sand with gravel		30	60	30.0'
light red silty sand with gravel		60	70	10.0'
light red gravel and silty sand		70	72	2.0'
pink silty sand and gravel		72	75	3.0'
light red gravel and silty sand		75	77	
light reddish brown silty sand with gravel		77	83	6.0'
gravel, silty sand		83	85	2.0'
silty sand with gravel		85	87	2.0'
gravel and silty sand		87	89	2.0'
light red brown silty sand with gravel		89	90	1.0'
gravel and silty sand		90	91	1.0'
light reddish brown silty sand with gravel		91	94	3.0'
gravel and silty sand		94	95	

8. WELL CONSTRUCTION
 Depth Drilled 484 Feet Depth Cased 484 Feet

HOLE DIAMETER (BIT SIZE)
 From 20 Inches To 252 Feet
 10 Inches 252 Feet 484 Feet

CASING SCHEDULE

Size O.D. (Inches)	Weight/Ft. (Pounds)	Wall Thickness (Inches)	From (Feet)	To (Feet)
14		.250	0	252
4"	54	80 PVL	+2	469

Perforations:
 Type perforation stainless steel wire wrap
 Size perforation Ø10
 From 469 feet to 484 feet

Surface Seal: Yes No Seal Type: 0-252
 Depth of Seal 0-462 best grout Neat Cement
 Placement Method: Pumped Cement Grout
 Poured Concrete Grout
 Gravel Packed: Yes No 462 to 467 best pellets
 From 467 feet to 484 feet

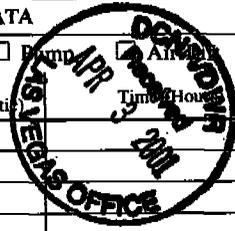
9. WATER LEVEL
 Static water level 478 feet below land surface
 Artesian flow _____ G.P.M. _____ P.S.I.
 Water temperature _____ °F Quality _____

10. DRILLER'S CERTIFICATION
 This well was drilled under my supervision and the report is true to the best of my knowledge.
 Name LAYNE CHRISTENSEN Co
 Address 9001 B PACIFIC AVE TACOMA, WA 98444
 Nevada contractor's license number issued by the State Contractor's Board 0019101
 Nevada driller's license number issued by the Division of Water Resources, the on-site driller W1628
 Signed [Signature]
 By driller performing actual drilling on site or contractor.
 Date 04/03/01

Date started 11/08/00, 19____
 Date completed 03/30/01, 19____

7. WELL TEST DATA

TEST METHOD:	G.P.M.	Draw Down (Feet Below Stat)	Time (Hours)
<input checked="" type="checkbox"/> Bailor <input type="checkbox"/> Pump <input type="checkbox"/> Air Lift			



OFFICE USE ONLY
 Log No. **82537**
 Permit No. _____
 Basin _____

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NOTICE OF INTENT NO. _____

1. OWNER _____ ADDRESS AT WELL LOCATION _____
 MAILING ADDRESS _____
 2. LOCATION _____ 1/4 _____ 1/4 Sec _____ T _____ N/S R _____ E _____ County _____
 PERMIT NO. _____ Issued by Water Resources _____ Parcel No. _____ Subdivision Name _____

3. WORK PERFORMED
 New Well Replace Recondition Domestic Irrigation Test
 Deepen Abandon Other _____ Municipal/Industrial Monitor Stock

5. WELL TYPE
 Cable Rotary RVC
 Air Other _____

6. MW 12B2 LITHOLOGIC LOG

Material	Water Strata	From	To	Thick-ness
silty sand with gravel		95	97	2.0'
gravel silty sand		97	98	1.0'
pink silty sand with gravel		98	100	2.0'
pink gravels and sand with silt		100	110	10.0'
light red silty sand and gravel		110	135	25.0'
light greenish gray clayey silt to silty clay		135	142	7.0'
dark greenish gray silty lean clay		142	145	3.0'
dark greenish to greenish gray clay with gypsum		145	149	4.0'
dark greenish gray silty clay		149	151	2.0'
greenish gray clay with gypsum		151	154	3.0'
greenish gray clay		154	160	6.0'
dark greenish gray silty lean clay		160	170	10.0'
greenish gray to yellowish red silty clay + gypsum		170	177	7.0'
greenish gray silty clay + gypsum		177	180	3.0'
light gray sandy clayey silt		180	190	10.0'
whit, gray, greenish gray to bluish gray lean clay + gypsum		190	213	23.0'
white gypsum, lean clay		213	215	2.0'

8. WELL CONSTRUCTION
 Depth Drilled _____ Feet Depth Cased _____ 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 perforation _____
 Size perforation _____
 From _____ feet to _____ feet
 From _____ feet to _____ feet

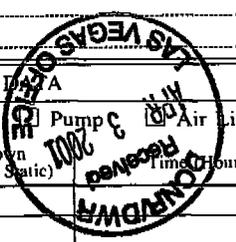
Surface Seal: Yes No Seal Type:
 Neat Cement
 Cement Grout
 Concrete Grout
 Depth of Seal _____
 Placement Method: Pumped Poured
 Gravel Packed: Yes No
 From _____ feet to _____ feet

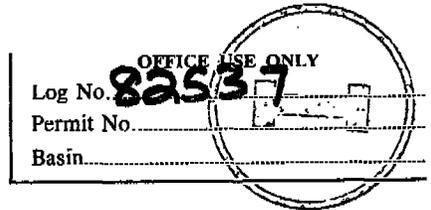
9. WATER LEVEL
 Static water level _____ feet below land surface
 Artesian flow _____ G.P.M. _____ P.S.I.
 Water temperature _____ °F Quality _____

10. DRILLER'S CERTIFICATION
 This well was drilled under my supervision and the report is true to the best of my knowledge.

Name _____ Contractor
 Address _____ Contractor
 Nevada contractor's license number issued by the State Contractor's Board _____
 Nevada driller's license number issued by the Division of Water Resources, the on-site driller _____
 Signed _____
 By driller performing actual drilling on site or contractor
 Date _____

7. WELL TEST DATA
 TEST METHOD: Bailer Pump & Air Lift
 G.P.M. _____ Draw Down (Feet Below Static) _____ Time (Hours) _____





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 MAILING ADDRESS _____
 2. LOCATION _____ 1/4 _____ 1/4 Sec. _____ T _____ N/S R _____ E _____ County _____
 PERMIT NO. _____ Issued by Water Resources _____ Parcel No. _____ Subdivision Name _____

3. WORK PERFORMED
 New Well Replace Recondition Domestic Irrigation Test
 Deepen Abandon Other _____ Municipal/Industrial Monitor Stock

5. WELL TYPE
 Cable Rotary RVC
 Air Other _____

6. MW 12B2 LITHOLOGIC LOG

Material	Water Strata	From	To	Thick-ness
light gray lean clay + gypsum		215	218	3.0'
white gypsum		218	219	1.0'
white to light greenish gray to light gray lean clay + gypsum		219	239	20.0'
light greenish gray clay variable colored silty clay gypsum, lean clay		239	242	3.0'
yellowish red lean clay		242	255	13.0'
light brownish gray clayey silty sand		255	257	2.0'
yellowish red gypsiferous lean clay		257	258	1.0'
yellowish red gypsiferous lean clay		258	260	2.0'
greenish gray and yellowish red fat clay		260	264	4.0'
yellowish red sandy lean clay		264	266	2.0'
yellowish red fat clay		266	268	2.0'
clear gypsum		268	270	2.0'
yellowish red gypsiferous lean clay		270	276	6.0'
white gypsum		276	290	24.0'
light reddish brown gypsiferous lean clay		290	291	1.0'
gypsum		291	292	1.0'
light reddish brown gypsiferous lean clay		292	295	3.0'

8. WELL CONSTRUCTION
 Depth Drilled _____ Feet Depth Cased _____ 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 perforation _____
 Size perforation _____
 From _____ feet to _____ feet
 From _____ feet to _____ feet

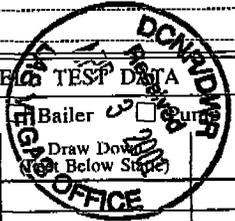
Surface Seal: Yes No Seal Type:
 Neat Cement
 Cement Grout
 Concrete Grout
 Depth of Seal _____
 Placement Method: Pumped Poured
 Gravel Packed: Yes No
 From _____ feet to _____ feet

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

10. DRILLER'S CERTIFICATION
 This well was drilled under my supervision and the report is true to the best of my knowledge.

Name _____ Contractor
 Address _____ Contractor
 Nevada contractor's license number issued by the State Contractor's Board _____
 Nevada driller's license number issued by the Division of Water Resources, the on-site driller _____
 Signed _____ By driller performing actual drilling on site or contractor
 Date _____

Date started _____, 19____
 Date completed _____, 19____
 7. WELL TEST DATA
 TEST METHOD: Bailer Pump Air Lift
 Draw Down (10' Below Static)
 G.P.M. _____ Time (Hours) _____



OFFICE USE ONLY
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 Permit No. _____
 Basin _____

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2. LOCATION _____ 1/4 _____ 1/4 Sec. _____ T. _____ N/S R. _____ E. _____ County _____

PERMIT NO. _____ Issued by Water Resources _____ Parcel No. _____ Subdivision Name _____

3. WORK PERFORMED
 New Well Replace Recondition
 Deepen Abandon Other _____

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

5. WELL TYPE
 Cable Rotary RVC
 Air Other _____

6. **MW 5B4** LITHOLOGIC LOG

Material	Water Strata	From	To	Thick-ness
gypsum		295	296	1.0'
brown gypsiferous fat clay		296	299	3.0'
pinkish gray gypsiferous lean clay		299	302	3.0'
yellowish red gypsiferous fat clay		302	304	2.0'
white + gray gypsum		304	321	17.0'
reddish yellow gypsiferous		321	328	7.0'
sandy lean clay		328	329	1.0'
gypsum		329	330	1.0'
yellowish red fat clay + gyp		330	332	2.0'
pinkish gray gypsum		332	359	27.0'
yellowish red gypsiferous lean clay		359	360	1.0'
gypsum		360	361	1.0'
yellowish red gypsiferous lean clay		361	367	6.0'
gypsum - pinkish gray		367	369	2.0'
gray to brown gypsiferous lean clay		369	381	12.0'
white gypsum		381	387	6.0'
reddish brown gypsiferous lean clay		387	402	15.0'
gypsum and gypsiferous lean clay - light gray		402	421.5	19.5'
yellowish red gypsiferous sandy lean clay				

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

HOLE DIAMETER (BIT SIZE)

Inches	Feet	Feet
From _____	To _____	_____
_____	_____	_____
_____	_____	_____

CASING SCHEDULE

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

Perforations:
 Type perforation _____
 Size perforation _____
 From _____ feet to _____ feet
 From _____ feet to _____ feet

Surface Seal: Yes No Seal Type:
 Neat Cement
 Cement Grout
 Concrete Grout

Depth of Seal _____

Placement Method: Pumped Poured

Gravel Packed: Yes No
 From _____ feet to _____ feet

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

10. DRILLER'S CERTIFICATION
 This well was drilled under my supervision and the report is true to the best of my knowledge.

Name _____ Contractor
 Address _____ Contractor

Nevada contractor's license number issued by the State Contractor's Board _____
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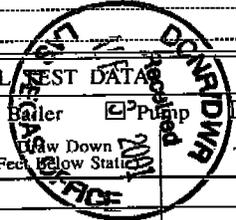
Signed _____
 By driller performing actual drilling on site or contractor
 Date _____

Date started _____, 19____
 Date completed _____, 19____

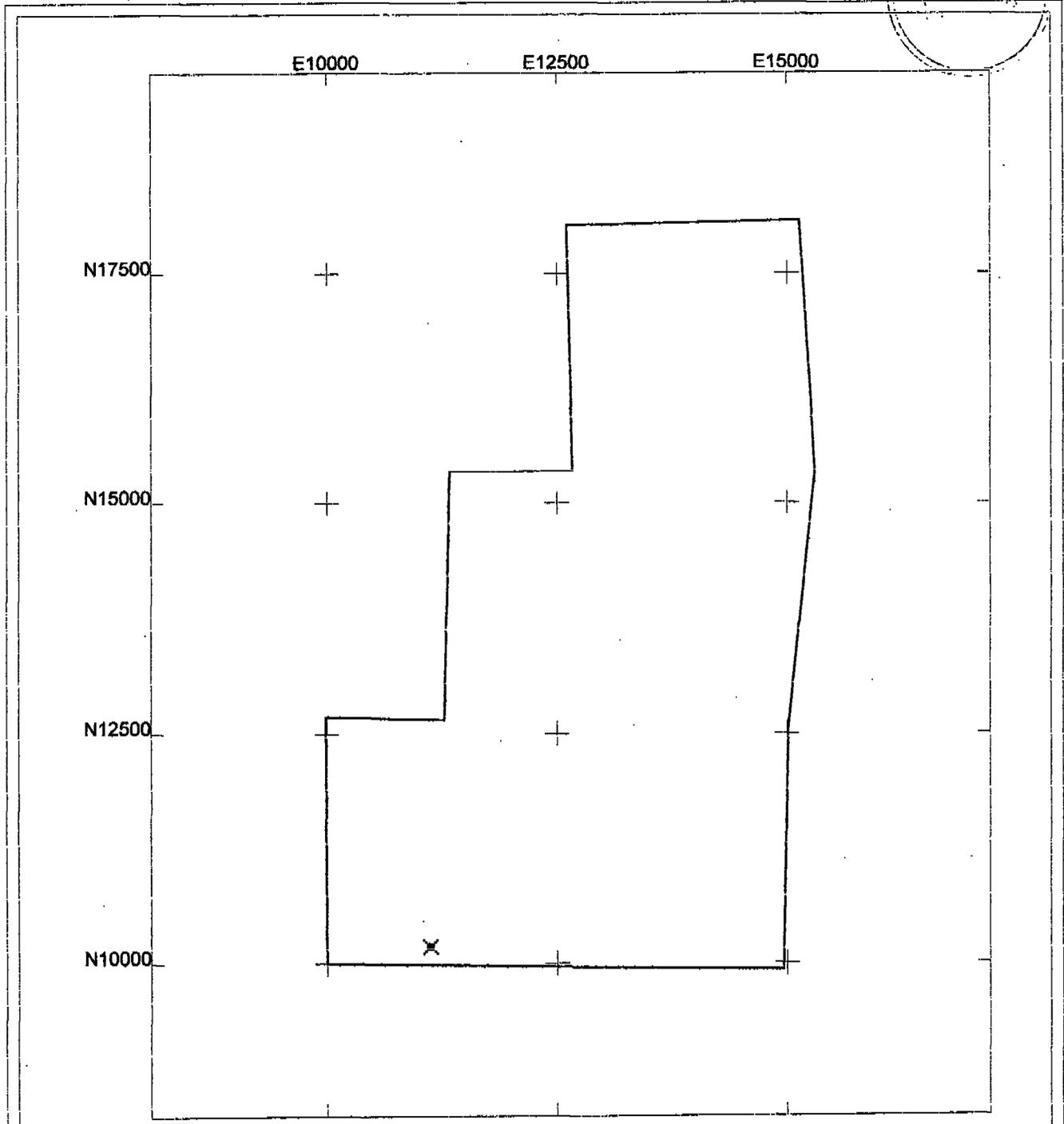
7. WELL TEST DATA

TEST METHOD: Bailor Pump Air Lift

G.P.M.	Flow Down (Feet below Station)	Time (Hours)

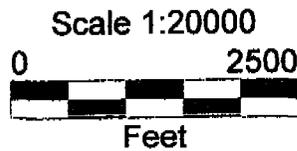


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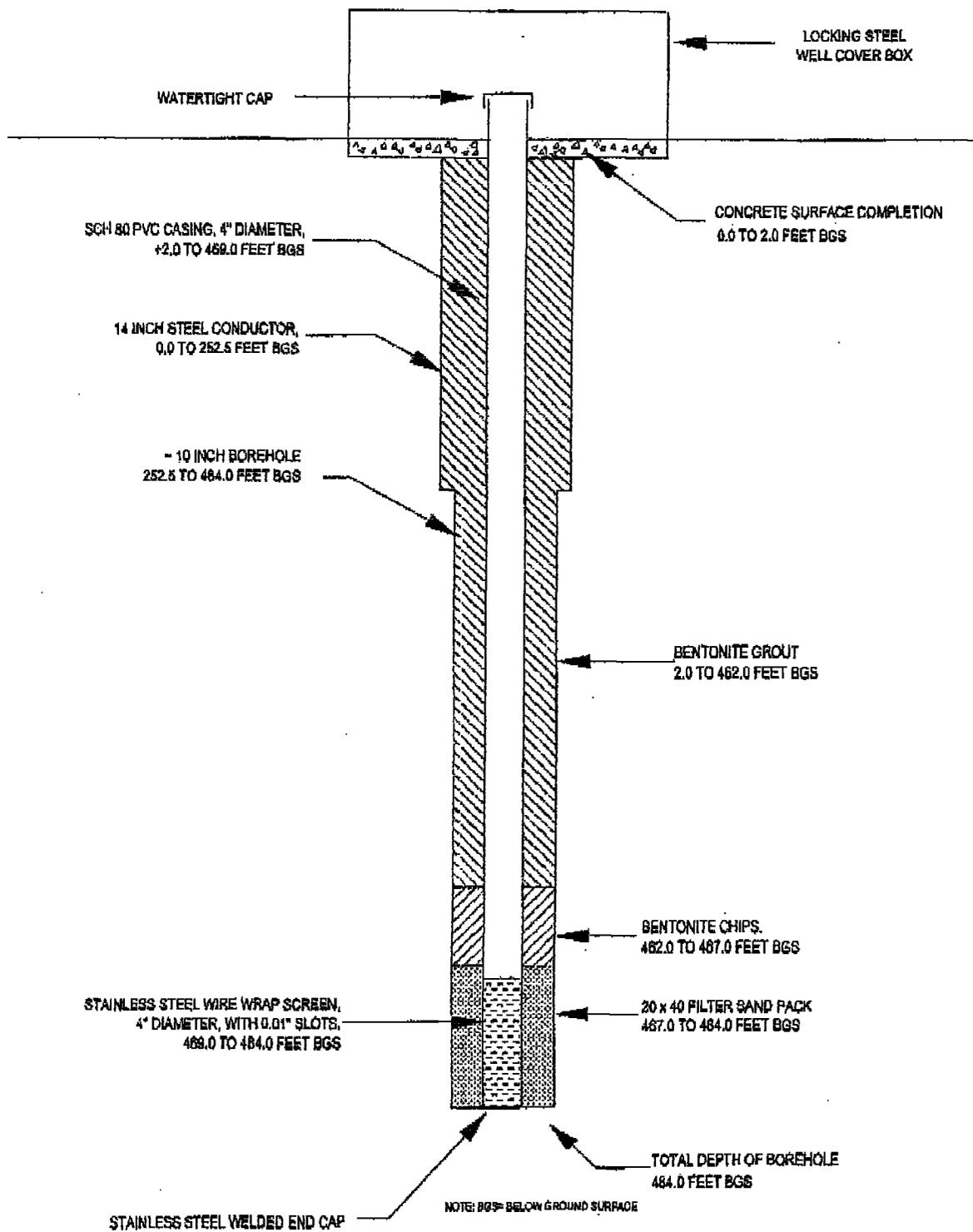
MW 12B2

Sunrise1
US State Plane 1927
Nevada East 2701
NADCON (Conus)



combined.ssf
4/3/2001
Pathfinder Office
 Trimble

MW-12B2



GEOTECHNICAL & ENVIRONMENTAL SERVICES, INC.
 (702) 365-1001
 7980 W. Sahara Ave., Suite 101
 Las Vegas, NV 89117

MW-12B2 WELL CONSTRUCTION DIAGRAM

JOB NO. 98744D1

FIG. 1