

OFFICE USE ONLY
Log No. 85775
Permit No. 1
Basin: 212

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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. 20982

1. OWNER Republic Dump Co Inc. ADDRESS AT WELL LOCATION Sunrise Mountain Landfill
MAILING ADDRESS 7900 E. Vegas Valley DR. Las Vegas NV 89142
2. LOCATION SE 1/4 SW 1/4 Sec. 1 T. 21 N. R. 62 E. CLARK County
PERMIT NO. 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

6. GH-7D LITHOLOGIC LOG

Material	Water Strata	From	To	Thickness
Well graded GRAVEL w/ Sand		0	17	17
Poorly graded SAND w/ gravel		17	20	3
Well graded GRAVEL w/ Sand		20	25	5
Poorly graded GRAVEL		25	28	3
GYPSUM		28	29	1
Poorly graded GRAVEL		29	33	4
GYPSUM		33	45	12
Poorly graded GRAVEL w/ Sand		45	52	7
GYPSUM		52	54	2
Poorly graded GRAVEL w/ Sand		54	60	6
Poorly graded SAND w/ gravel		60	61	1
Well graded GRAVEL w/ Sand		61	65	4
Poorly graded SAND w/ gravel		65	66	1
Conglomerate		66	68	2
Well graded GRAVEL		68	70	2
Poorly graded GRAVEL		70	71	1
NO RECOVERY		71	73	2
Well graded SAND		73	75	2
NO RECOVERY		75	79	4
Poorly graded GRAVEL		79	84	5
CONGLOMERATE		84	88	4

8. WELL CONSTRUCTION
Depth Drilled 490.5 Feet Depth Cased 480 Feet

HOLE DIAMETER (BIT SIZE)
From 36 Inches 20 Feet 0 Feet
From 8 Inches 490 Feet 20 Feet

CASING SCHEDULE

Size O.D. (Inches)	Weight/Ft. (Pounds)	Wall Thickness (Inches)	From (Feet)	To (Feet)
<u>24</u>		<u>1/2</u>	<u>20</u>	<u>0</u>
<u>4</u>	<u>SCH 80 PVC</u>		<u>480</u>	<u>+2</u>

Perforations:
Type perforation FACTORY CUT
Size perforation 0.010 INCH
From 480 feet to 470 feet

Surface Seal: Yes No Seal Type:
Depth of Seal 462 Neat Cement
Placement Method: Pumped Poured Cement Grout Concrete Grout

Gravel Packed: Yes No
From 468 feet to 482 feet

9. WATER LEVEL
Static water level 248 feet below land surface
Artesian flow _____ G.P.M. _____ P.S.I.
Water temperature _____ °F Quality _____

Date started 02-08-02
Date completed 04-08-02

7. WELL TEST DATA

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

10. DRILLER'S CERTIFICATION
This well was drilled under my supervision and the report is true to the best of my knowledge.
Name LAYNE CHEKSTENSEN Co. Contractor
Address 1707 South 4490 West Contractor
SALT LAKE CITY, UT 84104
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 2087
Signed William L. Franklin
By driller performing actual drilling on site or contractor
Date APRIL 11, 2002

OFFICE USE ONLY

Log No. 85775
 Permit No. 17
 Basin 212

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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. _____

1. OWNER _____ ADDRESS AT WELL LOCATION _____
 MAILING ADDRESS _____

2. LOCATION $\frac{1}{4}$ $\frac{1}{4}$ 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. GH-7D LITHOLOGIC LOG

Material	Water Strata	From	To	Thickness
GYP SUM		88	89	1
Poorly graded GRAVEL		89	91	2
GYP SUM		91	96	5
Poorly graded GRAVEL w/ gypsum		96	101	5
CONGLOMERATE		101	103	2
Poorly graded GRAVEL w/ gypsum		103	106	3
GYP SUM		106	111	5
Well graded GRAVEL w/ sand		111	121	10
Poorly graded SAND		121	122	1
well graded GRAVEL		122	126	4
CONGLOMERATE		126	127	1
Well graded GRAVEL w/ gypsum		127	129	2
GYP SUM		129	140	11
Poorly graded gravel w/ sand		140	141	1
CONGLOMERATE		141	143	2
GYP SUM		143	146	3
CONGLOMERATE		146	147	1
GYP SUM		147	169	22
Poorly graded SAND		169	170	1
GYP SUM		170	183	13
Silty SAND w/ gypsum		183	189	6
Poorly graded SAND w/ gravel		189	194	5
Silty SAND w/ gravel		194	206	12

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

HOLE DIAMETER (BIT SIZE)

Inches	Feet	Feet
From _____ To _____		
From _____ To _____		
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
 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

G.P.M.	Draw Down (Feet Below Static)	Time (Hours)

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WELL DRILLER'S REPORT

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NOTICE OF INTENT NO. _____

1. OWNER _____ ADDRESS AT WELL LOCATION _____
 MAILING ADDRESS _____

2. LOCATION $\frac{1}{4}$ $\frac{1}{4}$ 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. GH-7D LITHOLOGIC LOG

Material	Water Strata	From	To	Thickness
GYPSUM		206	207	1
Silty SAND w/ gravel		207	220	13
Poorly graded SAND w/ gravel		220	227	7
GYPSUM		227	229	2
Silty SAND w/ gravel		229	230	1
Poorly graded SAND w/ gravel		230	235	5
Silty GRAVEL w/ sand		235	236	1
Poorly graded GRAVEL w/ gypsum		236	237	1
Silty SAND w/ gravel		237	244	7
Poorly graded SAND w/ gravel		244	247	3
Silty SAND w/ gravel		247	251	4
Poorly graded SAND w/ gravel		251	252	1
Silty SAND w/ gravel		252	253	1
Poorly graded SAND w/ gravel		253	254	1
Silty SAND w/ gravel		254	254.5	0.5
Poorly graded GRAVEL		254.5	255	0.5
Poorly graded SAND		255	256	1
Silty SAND w/ gravel		256	260	4
Poorly graded SAND w/ gravel		260	262	2
Silty SAND w/ gravel		262	265	3
Poorly graded SAND		265	267	2
Silty SAND w/ gravel		267	270	3

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.

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

7. WELL TEST DATA

TEST METHOD: Bailer Pump Air Lift

G.P.M.	Draw Down (Feet Below Static)	Time (Hours)

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 _____

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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. _____

1. OWNER _____ ADDRESS AT WELL LOCATION _____
 MAILING ADDRESS _____

2. LOCATION $\frac{1}{4}$ $\frac{1}{4}$ 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. LITHOLOGIC LOG

Material	Water Strata	From	To	Thickness
Clayey GRAVEL		352	354	2
Well graded GRAVEL		354	356	2
Poorly graded SAND		356	360	4
Sandy GRAVEL		360	362	2
Poorly graded SAND		362	370	8
w/ gravel				
Silty SAND		370	380	10
clayey SAND		380	384	4
Poorly graded SAND		384	385	1
Clayey SAND		385	390	5
Poorly graded SAND		390	395	5
w/ gravel				
Silty SAND w/ gravel		395	396	1
Poorly graded SAND		396	398	2
w/ gravel				
Clayey SAND w/ gravel		398	400	2
Silty SAND w/ gravel		400	403	3
Clayey SAND w/ gravel		403	407	4
Silty SAND		407	410	3
Clayey SAND w/ gravel		410	420	10
Silty SAND w/ gravel		420	472	52
Poorly graded SAND		472	475	3
w/ gravel				
SANDSTONE		475	490.5	15.5

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
 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.

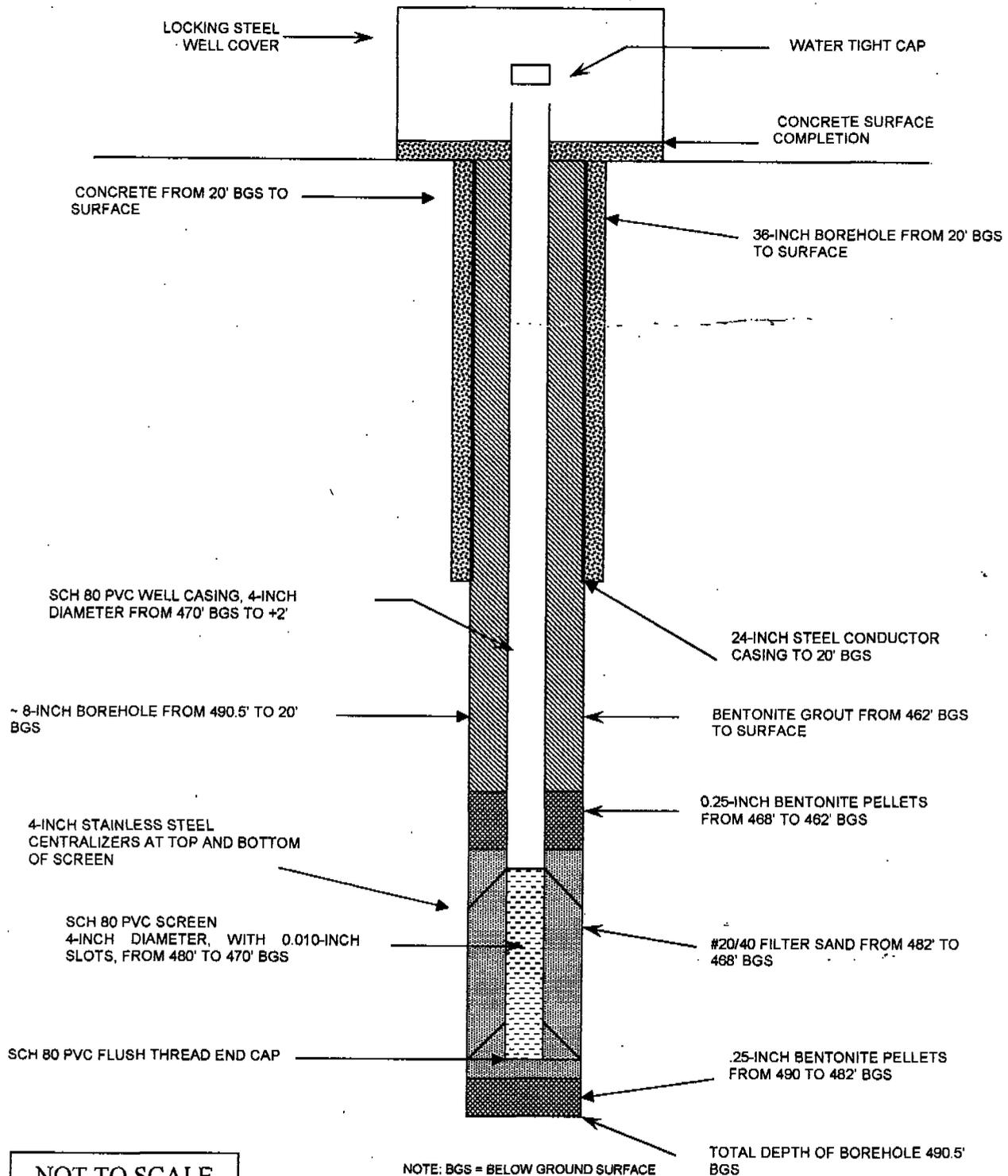
Name _____ Contractor
 Address _____ Contractor
 Nevada contractor's license number issued by the State Contractor's Board _____
 Nevada driller's license number issued by the Division of Water Resources, the on-site driller _____
 Signed _____ By driller performing actual drilling on site or contractor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

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

7. WELL TEST DATA

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

MW-7D



NOT TO SCALE
 AS-BUILT
 4/03/02

NOTE: BGS = BELOW GROUND SURFACE

TOTAL DEPTH OF BOREHOLE 490.5' BGS

SCS ENGINEERS
 2702 N. 44th Street,
 105B
 Phoenix, Arizona

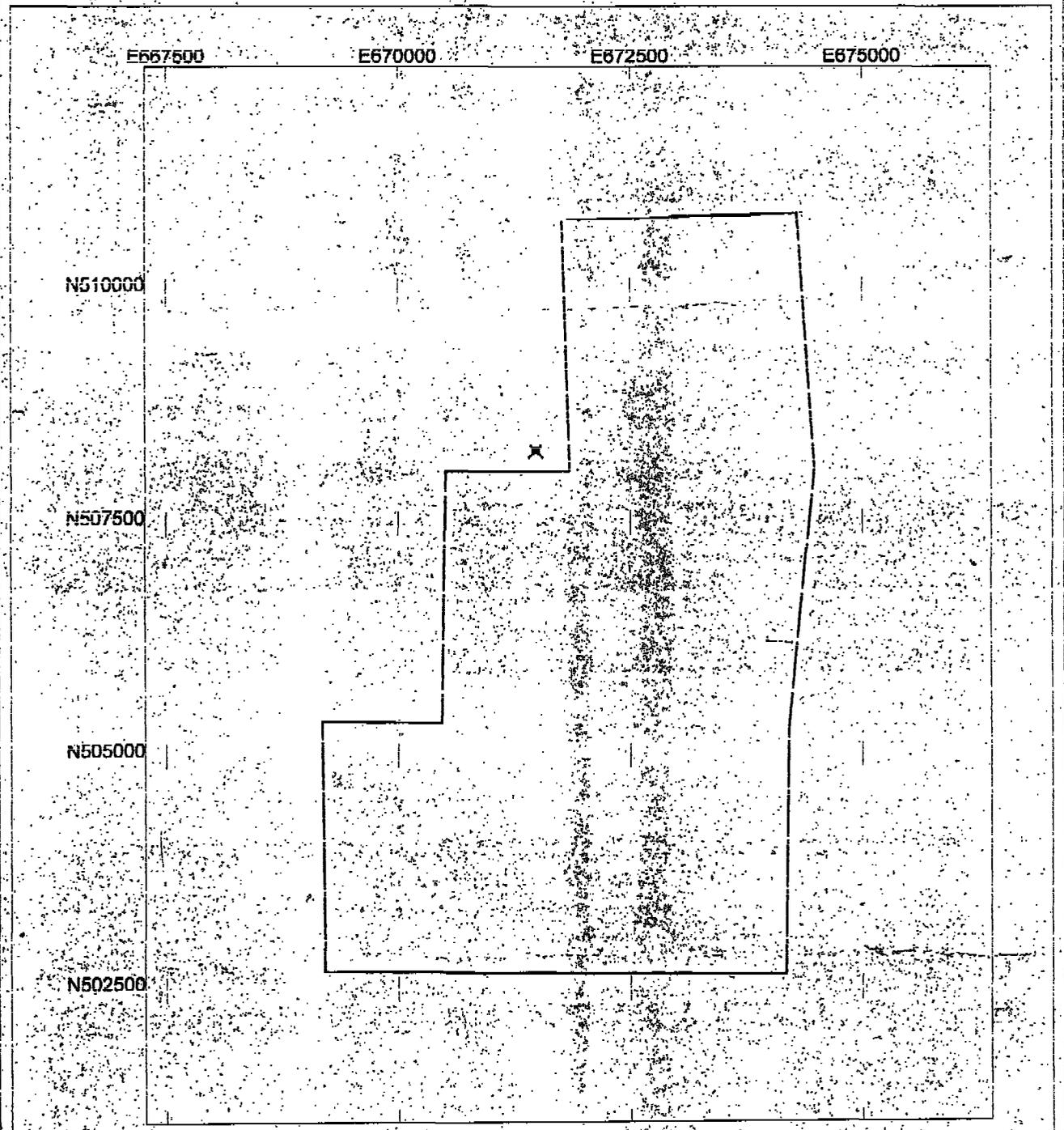
MW-7D WELL
 CONSTRUCTION DIAGRAM

JOB NO. 99007.01

FIG. 1

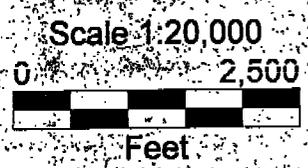
SCS ENGINEERS

85775



MW-7D LOCATION

Sunrise2
US State Plane 1927
Nevada East 2701
NADCON (Conus)



combined.ssf
4/11/02
GPS Pathfinder[®] Office
 Trimble