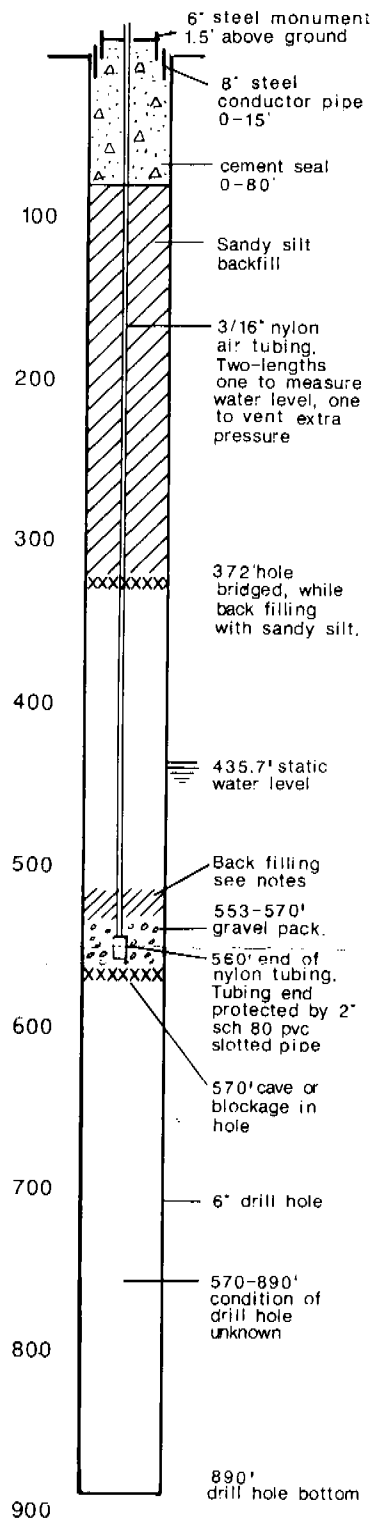
PERMIT NUMBER: N/A
Waiver R-004

MONITOR WELL UI-TH-2

Completed at Utah International Test Hole 2, drilled December 1980

NE¼SE¼ Section 12, T. 43N., R. 68E. Elko County

WELL CONSTRUCTION



LITHOLOGIC LOG
(From Utah Interntional Records)

0	- 20	Alluvial-limestone fragments in soil and clay
20	- 50	Medium brown clay (HP)
50	- 60	Light brown silty clay (LP)
60	- 80	Light brown silty clay (MP)
80	- 100	Light brown silty clay-slightly sandy
100	- 120	Light brown cherty siltstone (NP, AN)
120	- 130	Medium brown sandy siltstone (LP)
130	- 160	Medium brown clay w/chert fragments (MP)
160	- 190	Light brown clay w/chert fragments (LP)
190	- 200	Medium brown clay (HP)
200	- 210	Light brown clay filled w/chert and limestone fragments (LP, AN)
210	- 240	Light green siltstone w/minor chert fragments (LP, AN)
240	- 300	Light grey & brown clay w/chert fragments (MP to HP)
300	- 360	Yellow siltstone w/chert fragments (NP)
360	- 370	Light grey limestone w/chert fragments
370	- 470	Light grey silty limestone (AE)
470	- 540	Yellow silty limestone w/chert fragments (NP, AE)
540	- 550	Light grey silty limestone w/chert fragments (NP, AE)
550	- 560	Light brown silty limestone w/chert fragments (LP, AE)
560	- 580	Light grey silty limestone w/chert fragments (LP, AE)
580	- 600	Light brown silty limestone w/chert fragments
600	- 880	Light grey limestone w/chert fragments
880	- 890	Dark grey limestone (AE)

NOTES/OBSERVATIONS

See Log # 22283 and Permit # 38834

Monitor well water levels did not show any response to air lift pumping during development of water well # 2.

Installation notes show 23.5 gallon buckets of backfill were poured down the hole. After allowing 40 minutes of settling time the backfill was noted to rise only 1 ft. in the drill hole. The zone at which this occurred was not accurately recorded. It is possibly around 540 ft.

552-565', 15 ft. of rise after adding 9 1/2, 5 gallon buckets of gravel. In a 6" drill hole this amount should have filled 32 ft. of hole.

555-570' - Partial collapse of drill hole walls. Depth checker temporarily hanging up on ledges.
570 - Blockage could not get depth checker past here.
605 - Utah International drill records showed the first water producing zone at 605 ft. with 20 gpm.

GENERAL INSTALLATION NOTES

1. Installation of nylon air tubing and backfilling were performed in1988 during construction and development of Indian Springs Test Well #2. Cementing was performed during the 1989 field program.
2. Depths were checked with weighted 3/16" nylon air tubing. Stretch & suspended sediment from backfilling may be affecting reading reliability.
3. 560' monitoring well depth (end of nylon tubing) determined by submergence pressure 54 psi (124.7') added to static water level of 435.7 ft. measured with an electric sounder.

EXPLANATION OF ABBREVIATED SYMBOLS ON UI-TH-1 & 2 LITHOLOGIC LOGS

1. Plasticity:
   - NP = non-plastic
   - LP = low plasticity
   - MP = medium plasticity
   - HP = high plasticity
2. Acid test reaction (with dilute 10% solution of HCL acid):
   - AN = negative results to acid test
   - AE = effervescent result from acid, i.e., limestone
3. Magnetic:
   - NMag = No magnetic material in the sample
   - Mag = Sample contained some magnetic particles

Log No.: _____

Basin: 11-189 d

INDIAN SPRINGS PROJECT
Elko County, Nevada

SUMMARY OF INDIAN SPRINGS MONITOR WELL UI-TH-2

D. Gabbay Consulting Hydrologist
DATE: November 1990 FOR: ABERMIN, INC.

PERMIT NUMBER: N/A R-004

WHITE—DIVISION OF WATER RESOURCES
CANARY—CLIENT'S COPY
PINK—WELL DRILLER'S COPY

STATE OF NEVADA
DIVISION OF WATER RESOURCES

WELL DRILLERS REPORT

Please complete this form in its entirety

OFFICE USE ONLY
Log No. 21283
Permit No.
Basin

1. OWNER Utah International Inc. ADDRESS Montello Nev. P.O. Box

2. LOCATION NE ¼ SE ¼ Sec. 18 T. 43 N/S R. 68 E. Elko County
PERMIT NO. R-0054

3. TYPE OF WORK
New Well ☐ Recondition ☐
Deepen ☐ Test Other one ☐

4. PROPOSED USE
Domestic ☐ Irrigation ☐ Test ☐
Municipal ☐ Industrial ☐ Stock ☐

5. TYPE WELL
Cable ☐ Rotary ☐
Other ☐

6. LITHOLOGIC LOG

Material	Water Strata	From	To	Thickness
sandy clay, brown, gray, yellow white & red		0	340	
soft fractured limestone	605	340	710	
hard gray rock	711	710	880	

I left a 15ft. Piece of 8" conductor pipe in hole & welded a steel cap on. This hole may be used for further testing by core drilling.

See Log # ~~30654~~ For completion

Date started 12/14, 1980
Date completed 12/15, 1980

7. WELL TEST DATA

Pump RPM	G.P.M.	Draw Down	After Hours Pump

BAILER TEST
G.P.M. ..... Draw down ..... feet ..... hours
G.P.M. ..... Draw down ..... feet ..... hours
G.P.M. ..... Draw down ..... feet ..... hours

8. WELL CONSTRUCTION
Diameter hole 6 inches Total depth 880 feet
Casing record
Weight per foot ..... Thickness

Diameter	From	To
8 5/8 od inches	0 feet	15 feet
inches	feet	feet
inches	feet	feet
inches	feet	feet
inches	feet	feet
inches	feet	feet

Surface seal: Yes ☐ No ☑ Type
Depth of seal ..... feet
Gravel packed: Yes ☐ No ☑
Gravel packed from ..... feet to ..... feet

Perforations:
Type perforation none
Size perforation
From ..... feet to ..... feet
From ..... feet to ..... feet
From ..... feet to ..... feet
From ..... feet to ..... feet
From ..... feet to ..... feet

9. WATER LEVEL
11-87 436'
Static water level 500 Feet below land surface
Flow 1 G.P.M. 300 to 400
Water temperature Cool ° F. Quality clear

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

Name Paul Williams
Address 22 S. Pattesson Sparks
Nevada contractor's license number 14483
Nevada driller's license number 957
Signed Paul E Williams
Date 12/20/80

USE ADDITIONAL SHEETS IF NECESSARY

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