February 28, 2005	Well No. 8 (T-4662-Expl) City of Alamogordo -- Lithologic Log
	cuttings logged wet, from discharge trench with shovel, direct mud rotary
depth, ft	description
0-310	gravel: chips to ¾", grey, white, black; rounded to subangular; ls, qtz, ss, siltstone, granite.
310-340	clay: silty sandy tan clay, slightly plastic. fine-coarse sands, rounded to subrounded
340-370	gravel: clayey sitly sand gravel. fine gravel gray, black, white, tan; subrounded to subangular with light tan clay and f-c sand
370-400	clay: silty sandy tan clay, slightly plastic. Fine-coarse sands, rounded to subrounded
400-430	sand: clayey silty sand. 80% coarse-fine sand, grey, black, tan, white; subangular to subrounded, qtz and feldspar. 20% tan silty clay
430-460	sand: clayey silty sand. 80% coarse-fine sand, grey, black, tan, white; subangular to subrounded. 20% tan silty clay
460-530	clay: gravely sandy clay. 60% tan clay. 30% fine-medium sand. 10% fine gravel subangular to angular, black.
530-540	sand: silty sand. 90% coarse to fine sand; gray, black, tan, white; subrounded to subangular. 10% tan silty clay.
540-550	clay: gravely sandy clay. 60% tan clay. 30% fine-medium sand. 10% fine gravel subangular to angular, black.
550-560	sand: silty sand. 90% coarse to fine sand; gray, black, tan, white; subrounded to subangular. 10% tan silty clay.
560-600	clay: 55% gravely sandy clay. 60% tan clay. 20% fine-coarse sand. 25% fine gravel
600-630	sand: silty clayey sand. 70% coarse to fine sand; black, tan, white; subrounded to subangular. 30% tan silty clay
630-640	sand: silty clayey sand. 80% coarse sand; black, tan, white; subrounded to subangular. 20% tan silty clay
640-830	clay: silty sandy gravelly clay. 70% tan clay, medium plasticity. 20%gravel, black, subangular to angular. 10% fine to coarse sand; tan, white, black.
830-840	sand: silty gravelly sand. 80% coarse sand; subrounded to subangular. 10% tan silty clay. 10% fine gravel
840-880	clay: silty sandy gravelly clay. 70% tan clay, medium plasticity. 20%gravel, black, subangular to angular. 10% fine to coarse sand; tan, white, black.
880-930	sand: silty gravelly sand. coarse sand; subrounded to subangular. 20% silty clay particles interbedded with gravel, some angular chips up to ¼"

February 28, 2005	Well No. 8 (T-4662-Expl) City of Alamogordo -- Lithologic Log
	cuttings logged wet, from discharge trench with shovel, direct mud rotary
depth, ft	**description**
930-940	clay: sandy gravelly clay. 70% tan clay, medium plasticity. 20%gravel, black, subangular to angular. 10% fine to coarse sand; tan, white, black.
940-950	sand: gravelly sand. coarse sand; subrounded to subangular. 20% silty clay. cobbles interbedded with gravel, some angular chips up to ¼"
950-960	clay: sandy gravelly clay. tan silty clay, medium plasticity . coarse sand; tan, white, black and grey. minor gravel.
960-1000	clay: sandy gravelly clay. 55% tan clay. 45% coarse sands. cobbles interbedded with gravel sands and clays.
1000-1040	sand: clayey sand. 55% fine to coarse sands. 45% silty clay. some interbedded cobbles likely.
1040-1060	sand: clayey sand. 65% coarse sand. 35% tan clay.
1060-1090	clay: sandy gravelly clay. 55% tan clay. 45% coarse sands. cobbles interbedded with gravel sands and clays.

T-4662
TRN-311231

File Number: T 4662

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

1. OWNER OF WELL

Name: City of Alamogordo — Work Phone: 505 439-4240
Contact: Mr. Pat McCourt — Home Phone: _____
Address: 1376 E. 9th St.
City: Alamogordo — State: NM Zip: 88310

2. LOCATION OF WELL (A, B, C, or D required, E or F if known)

A. SE 1/4 ___ 1/4 ___ 1/4 Section: 7 Township: 13S Range: 10 E N.M.P.M. in Otero County.

B. X = _____ feet, Y = _____ feet, N.M. Coordinate System ___ Zone in the _____ Grant.
U.S.G.S. Quad Map _____

C. Latitude: 33 d 12 m 6.8 s Longitude: 106 d 01 m 25.0 s

D. East _____ (m), North _____ (m), UTM Zone 13, NAD __ (27 or 83)

E. Tract No. ____, Map No. ____ of the _____ Hydrographic Survey

F. Lot No. ____, Block No. ____ of Unit/Tract _____ of the _____ Subdivision recorded in _____ County.

G. Other: _____

H. Give State Engineer File Number if existing well: _____

I. On land owned by (required): BLM

3. DRILLING CONTRACTOR

License Number: WD-331
Name: Stewart Brothers Drilling — Work Phone: 505 287-2986
Agent: Randy Stewart — Home Phone: _____
Mailing Address: P.O. Box 2067
306 Airport Rd.
City: Milan — State: NM Zip: 87021

4. DRILLING RECORD

Drilling began: 2/27/05 ; Completed: 3/22/05 ; Type tools: Mud Rotary;
Size of hole: 12.25 in.; Total depth of well: 1093 ft.;
Completed well is: Shallow (shallow, artesian);
Depth to water upon completion of well: 307 ft.

File Number: T 4662 — Trn Number: _____
Form: wr-20

June 3, 2005

07.13S.10E
T-4662

File Number: T 4662

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

5. PRINCIPAL WATER-BEARING STRATA

Depth in Feet From	To	Thickness in feet	Description of water-bearing formation	Estimated Yield (GPM)
480	980	500	Sands and Gravels	240

6. RECORD OF CASING

Diameter (inches)	Pounds per ft.	Threads per in.	Depth in Feet Top	Bottom	Length (feet)	Type of Shoe	Perforations From	To
14	36.71		0	20	20	None		
6	17.10	Weld	0	470	470			
6	25.68	Weld	470	480	10			
6	SS Scr.	Weld	480	980	500			
6	SS Blk	Weld	980	1000		Sump		

7. RECORD OF MUDDING AND CEMENTING

Depth in Feet From	To	Hole Diameter	Sacks of mud	Cubic Feet of Cement	Method of Placement
0	20	17 1/2		22	Tremi

8. PLUGGING RECORD

Plugging Contractor: _____
Address: _____
Plugging Method: _____
Date Well Plugged: _____

Plugging approved by: _____
State Engineer Representative

No.	Depth in Feet Top	Bottom	Cubic Feetof Cement
1			
2			
3			
4			
5			

File Number: T 4662 Trn Number: _____
Form: wr-20

June 3, 2005

07.13S.10E
T-4662

File Number: T 4662

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

9. LOG OF HOLE

Depth in Feet From	To	Thickness in feet	Color and Type of Material Encountered
0	310	310	Gravel 3/4 Chips, grey, white, black
310	340	30	Clay, Silty sand, Clay
340	370	30	Gravel, Clay Silty sand, Grey, White, Tan, Black
370	400	30	Clay Silty Sand & Clay
400	430	30	Subrounded Feldspar, Silty Clay
430	460	30	Sand, Grey, Black, Tan, White
460	530	70	Clay, Gravel Sandy Clay
530	560	30	Clay, Gravels, Sandy Clay - Tan
560	600	40	Sand Silty Sand, Clay
600	630	30	Sandy Black, Grey, Tan
630	640	10	Gravels, Clay, Silty Sand
640	830	190	Sandy Silt, Sandy Gravel
830	880	50	Clay, Silty Sands & Gravels
880	930	50	Sand, Clay, Silty Sand
930	940	10	Clay, Silty Sand, Gravels
940	950	10	Silty Sand & Gravel
950	1093	143	Fine Gravel & Silty Sand

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NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

10. ADDITIONAL STATEMENTS OR EXPLANATIONS:

Well was drilled for ground water information,
for The City of Alamogordo.

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Driller

3/22/05
(mm/dd/year)

FOR STATE ENGINEER USE ONLY

Quad _____; **FWL** _____; **FSL** _____; **Use** _____; **Location No.** _____

File Number: T 4662
Form: wr-20

Trn Number: _____

June 3, 2005

07.13S.10E
T-4662

Figure 2. Diagram showing recommended well construction, Small Diameter Test Wells

John R. D Antonio, Jr., P.E.
State Engineer

Las Cruces Office
1680 HICKORY LOOP, SUITE J
LAS CRUCES, NM 88005

STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER

Trn Nbr: 311231
File Nbr: T 04662
Well File Nbr: T 04662

Jun. 03, 2005

PAT MCCOURT
CITY OF ALAMOGORDO
1376 E. NINTH STREET
ALAMOGORDO, NM 88310

Greetings:

Enclosed is your copy of the well record for the above numbered permit, which has been accepted for filing.

Sincerely,

Sarah Rodriguez
(505) 524-6161

Enclosure
cc: Santa Fe Office

wellrrcv