

1R - 0043

REPORTS

DATE:

02/24/2006



IR 0043

February 24, 2006

2006 MAR 2 PM 12 43

Mr. Glen VonGonten
New Mexico Energy, Minerals, and Natural Resources Department
12205 St. Francis Drive
Santa Fe, NM 87205

Subject: Groundwater Evaluation
Former Baker Oil Tools Facility
2800 West Marland – Hobbs, NM

Dear Mr. VonGonten:

At the request of Baker Oil Tools (BOT), RMT, Inc has reviewed the information available concerning the former Baker Oil Tools Facility in Hobbs, New Mexico. Our evaluation included a review of the historical groundwater analytical results and groundwater flow-path information to determine if: (1) monitor well locations were sufficient to properly detect any possible releases from the on-site impoundment, (2) what monitor wells (existing or proposed) would be necessary for proper detection, and (3) what parameters should be analyzed based on the historic data. The purpose of this correspondence is to inform you of our findings and to relay Baker Hughes' plan for further detection monitoring.

Monitoring System:

Figure 1 is a map of the facility, which indicates the locations of the current on-site groundwater wells (identified as wells MWs-1, 2, 3, 16, R-1, and WW-1). Wells MWs-1, 2, and 3 were installed and sampled as part of the initial and on-going site assessment. Well WW-1 appears to be a water supply well screened in a lower aquifer. MW-16 was discovered during a site visit in early February 2006 and appears to be part of a neighboring facilities groundwater monitoring system. An evaluation of the potentiometric groundwater surface prepared from the water levels recorded during sampling events in March 2000, September 2000, December 2000, December 2001, March 2003, and April 2004 (see Table 1 for summary of measured levels and flow calculations) indicates that over this five year period the groundwater flow direction has a flow-path deviation of only 31° ranging from 135° to 104° of true north (see Attachment A for potentiometric maps and Figure 2 for flow-path compilation). In addition, groundwater gradient and flow velocity ranged from 0.0011 to 0.0033 feet per foot and 0.06 to 0.18 feet per day, respectively (Table 1 graph). Based on this evaluation, well MW-1 is located immediately upgradient of the impoundment and well R-1 is located immediately downgradient of the impoundment in the center of the average groundwater flow-path direction. As such, these two wells are sufficient for detection of any releases to the groundwater beneath the impoundment.

Analytical Parameters:

Table 2 is a summary of the historical analytical results for the facility groundwater and a graph of analytical results from 2-Methylnaphthalene and Naphthalene.

- Well MW-2, located in the northeast corner of the facility and well outside the flow-path, has not had an indication of impact above method detection limits for any parameters analyzed.
- WW-1 has had no analytical results above method detection limits and is most likely screened in a deeper aquifer.
- Well MW-3, located in the southeast corner of the facility and adjacent to the downgradient groundwater flow-path, has had benzene and MTBE identified above the method detection limits; however, neither constituent would be expected at the site based on historic practices. In a letter dated March 8, 1995 (see Attachment B, the New Mexico Oil Conservation Division (NMOCD) concurred that the volatile organic compound (VOC) contaminants were coming on-site from an upgradient neighboring property.
- Well MW-1, located immediately upgradient of the impoundment and in direct line of the groundwater in-flow flow-path, had analytical results indicating both 2-methylnaphthalene and naphthalene above the NM 20.6.2.3103 abatement standard during the sampling event of June 27, 2000. There had been no occurrences above method detection limits in the two sampling events prior to June 2000 nor had there been in the six sampling events following the June 2000 event.
- Well R-1, located immediately downgradient of the impoundment and in direct line of the groundwater flow-path, has had indications of 2-methylnaphthalene or naphthalene in seven of the nine sampling events. A review of the graphic representation of the analytical results indicates that the identified concentrations are reducing through time. Concentrations were below the New Mexico Standard for the last five sampling events (since 2000) except for 2-Methylnaphthalene which slightly exceeded the standard by 0.004 mg/L in December 2004.

Response Plan:

In response to the findings of this evaluation, Baker Hughes will make the following response:

- In order to further evaluate the 2-methylnaphthalene and naphthalene identified in well R-1, Baker Hughes will collect and analyze groundwater samples from upgradient well MW-1 and downgradient wells R-1 (immediately downgradient) and MW-3 (distal downgradient) on a quarterly basis for four consecutive quarters in 2006 (beginning in February 2006).
- These samples will be analyzed for 2-methylnaphthalene and naphthalene by a contract laboratory.
- During each sampling event, static groundwater levels will be measured in all accessible on-site groundwater monitoring wells and in the on-site deep well. These measurements will be utilized to prepare potentiometric maps for the purpose of continuing to evaluate the groundwater flow-path direction and groundwater flow velocity.

Mr. Glen VonGonten
New Mexico Energy, Minerals, and Natural Resources Department
February 24, 2006
Page 3

- During each sampling event, the groundwater quality indicators of pH, specific conductance, and temperature will be measured in the field and recorded with the analytical results.

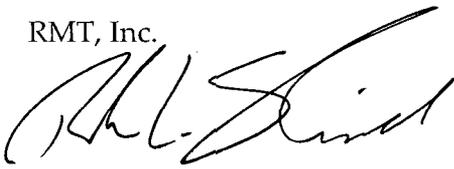
Attachment C contains the field program summary sheet and field data collection forms that will be utilized during the sampling events.

Following the receipt and evaluation of the fourth quarterly sample results, a report will be prepared and submitted to the New Mexico Energy, Minerals, and Natural Resources Department which summarizes all results and makes recommendations based on those results.

Should you have any questions or comments, please contact me at 512-329-3122 or at robert.sherrill@rmtinc.com.

Sincerely,

RMT, Inc.



Robert L. Sherrill, PG
Senior Project Manager - RMT, Inc.

cc: Ms. Myna Letlow - Baker Hughes
Mr. Joseph Hossley, PE, DEE - RMT, Inc.
Central Files

Attachments:

- Figure 1 – Site Well Location Map
- Figure 2 – Groundwater Flow-Path Map
- Table 1 – Groundwater Levels and Graphs
- Table 2 – Historical Analytical Results and Graph
- Attachment A – Potentiometric Maps of Groundwater Elevations
- Attachment B – March 8, 1995 NM EMNRD Correspondence
- Attachment C – Sampling Program and Field Data Collection Forms

Tables

TABLE 1

SUMMARY OF HISTORICAL GROUNDWATER CONDITIONS & CHARACTERISTICS

Baker Oil Tools - Hobbs, New Mexico

GROUNDWATER ELEVATION MEASUREMENTS:

Date of Measurement	MW-1		MW-2		MW-3		R-1	
	ft-BTOC	ft-REF	ft-BTOC	ft-REF	ft-BTOC	ft-REF	ft-BTOC	ft-REF
29-Mar-00	35.45	64.74	35.23	64.33	34.88	64.27		
27-Sep-00	36.09	64.10	35.68	63.88	35.35	63.80	36.08	63.95
5-Dec-00	36.02	64.17	35.62	63.94	35.22	63.93	35.94	64.09
5-Dec-01	36.77	63.42	36.59	62.97	36.28	62.87	36.85	63.18
12-Mar-03	37.88	62.31	37.77	61.79	37.55	61.60	37.92	62.11
6-Apr-04	38.78	61.41	38.36	61.20	38.00	61.15	38.69	61.34
28-Dec-04	37.17	63.02	36.76	62.80	36.48	62.67	37.09	62.94
MAX VALUE	38.78		38.36		38.00		38.69	
MIN VALUE	35.45		35.23		34.88		35.94	
AVG VALUE	36.88		36.57		36.25		37.10	
DEVIATION	3.33		3.13		3.12		2.75	

LOWER AQUIFER

WW-1	
Top Casing= 100.03	
Total Depth= 125.0	
ft-BTOC	ft-REF
35.01	65.02
35.57	64.46
35.39	64.64
36.23	63.80
37.28	62.75
37.10	62.93
36.60	63.43
	37.28
	35.01
	36.17
	2.27

GROUNDWATER FLOW CHARACTERISTICS:

Date of Measurement	GRADIENT CALCULATIONS			VELOCITY CALCULATIONS				FLOW PATH			
	MW-1 Upgradient Water Level (ft-REF)	MW-3 Downgradient Water Level (ft-REF)	Linear Distance (ft)	Gradient FT/FT	Hydraulic Conductivity gpd/ft ²	Hydraulic Head Difference (ft)	Formation Porosity (as decimal)	Flow Velocity ft/day	Flow Velocity ft/year	Degrees from True North	Compass Direction of Flow
29-Mar-00	64.74	64.27	215	0.0022	100	0.0022	0.24	0.12	44.3	130	ESE
27-Sep-00	64.10	63.80	215	0.0014	100	0.0014	0.24	0.08	28.3	127	ESE
05-Dec-00	64.17	63.93	215	0.0011	100	0.0011	0.24	0.06	22.6	104	ESE
05-Dec-01	63.42	62.87	215	0.0026	100	0.0026	0.24	0.14	51.9	125	ESE
12-Mar-03	62.31	61.60	215	0.0033	100	0.0033	0.24	0.18	67.0	117	ESE
06-Apr-04	61.41	61.15	215	0.0012	100	0.0012	0.24	0.07	24.5	107	ESE
28-Dec-04	63.02	62.67	215	0.0016	100	0.0016	0.24	0.09	33.0	135	ESE
MAX VALUE	64.74	64.27		0.0033		0.0033		0.18	67.0	135	
MIN VALUE	61.41	61.15		0.0011		0.0011		0.06	22.6	104	
AVG VALUE	63.31	62.90		0.0019		0.0019		0.11	38.8	121	
DEVIATION	3.33	3.12		0.0022		0.0022		0.12	44.3	31	

ft-BTOC = linear feet below Top Of well Casing
ft-REF = feet corrected to fixed Surveyed Elevation

ft = feet
FT/FT = Feet of Head Change/Feet of Horizontal Separation

gpd/ft² = Gallons per Day per Square Feet of Aquifer Matrix

TABLE 1 (continued)
SUMMARY OF HISTORICAL GROUNDWATER CONDITIONS & CHARACTERISTICS
 Baker Oil Tools - Hobbs, New Mexico

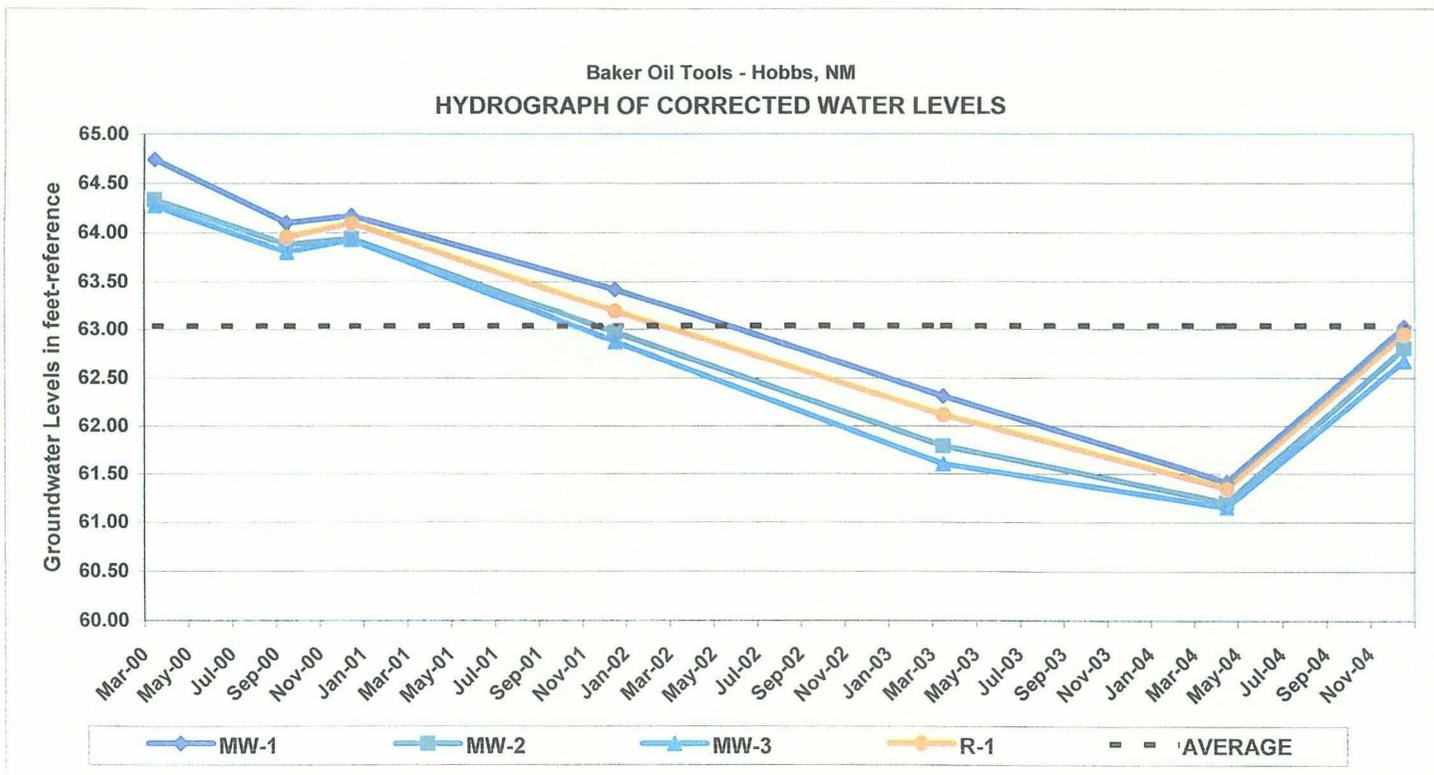


TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
Baker Atlas Facility - Hobbs, New Mexico

Well #	Constituent >	CONSTITUENTS MIGRATING FROM UPGRADIENT NEIGHBOR ⁽¹⁾					2-Methyl-naphthalene S-8270C mg/L 0.03	Naphthalene S-8270C mg/L 0.03
		Benzene	Ethylbenzene	Toluene	Xylenes	MTBE		
		S-8020A	S-8020A	S-8020A	S-8020A	S-8020		
		mg/L	mg/L	mg/L	mg/L	mg/L		
		0.01	0.75	0.75	0.62	DL		
MW-1	21-Dec-99	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01
	29-Mar-00	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01
	27-Jun-00	<0.005	<0.005	<0.005	<0.005	<0.005	0.0159	0.0231
	27-Sep-00	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01
	5-Dec-00	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01
	5-Dec-01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.01	<0.01
	12-Mar-03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	6-Apr-04	<0.001	<0.001	<0.001	<0.002	<0.001	<0.01	<0.01
	28-Dec-04	<0.001	<0.001	<0.001	<0.002	<0.001	<0.01	<0.01
MW-2	21-Dec-99	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01
	29-Mar-00	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01
	27-Jun-00	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01
	27-Sep-00	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01
	5-Dec-00	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01
	5-Dec-01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.01	<0.01
	12-Mar-03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	6-Apr-04	<0.001	<0.001	<0.001	<0.002	<0.001	<0.01	<0.01
	28-Dec-04	<0.001	<0.001	<0.001	<0.002	<0.001	<0.01	<0.01
MW-3	21-Dec-99	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01
	29-Mar-00	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01
	27-Jun-00	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01
	27-Sep-00	<0.005	<0.005	<0.005	<0.005	0.0382	<0.01	<0.01
	5-Dec-00	<0.005	<0.005	<0.005	<0.005	0.0357	<0.01	<0.01
	5-Dec-01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.01	<0.01
	12-Mar-03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	6-Apr-04	0.0016	<0.001	<0.001	<0.001	0.0605	<0.01	<0.01
	28-Dec-04	<0.001	<0.001	<0.001	<0.001	0.0025	<0.01	<0.01
R-1	21-Dec-99	<0.005	<0.005	<0.005	<0.005	<0.005	0.1852	0.1173
	29-Mar-00	<0.005	<0.005	<0.005	<0.005	<0.005	0.0975	0.1221
	27-Jun-00	<0.005	<0.005	<0.005	<0.005	<0.005	0.0843	0.1386
	27-Sep-00	<0.005	<0.005	<0.005	<0.005	<0.005	0.0731	0.1642
	5-Dec-00	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	0.021
	5-Dec-01	<0.001	<0.001	<0.001	<0.001	<0.001	0.013	0.014
	12-Mar-03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	6-Apr-04	<0.001	0.0011	<0.001	<0.002	<0.001	<0.01	<0.01
	28-Dec-04	<0.001	<0.001	<0.001	<0.002	<0.001	0.034	0.014
WW-1	21-Dec-99	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01
	29-Mar-00	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01
	27-Jun-00	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01
	27-Sep-00	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01
	5-Dec-00	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01
	5-Dec-01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.01	<0.01
	12-Mar-03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	6-Apr-04	<0.001	<0.001	<0.001	<0.002	<0.001	<0.01	<0.01
	28-Dec-04	<0.001	<0.001	<0.001	<0.002	<0.001	<0.01	<0.01

ABBREV. &
CODING

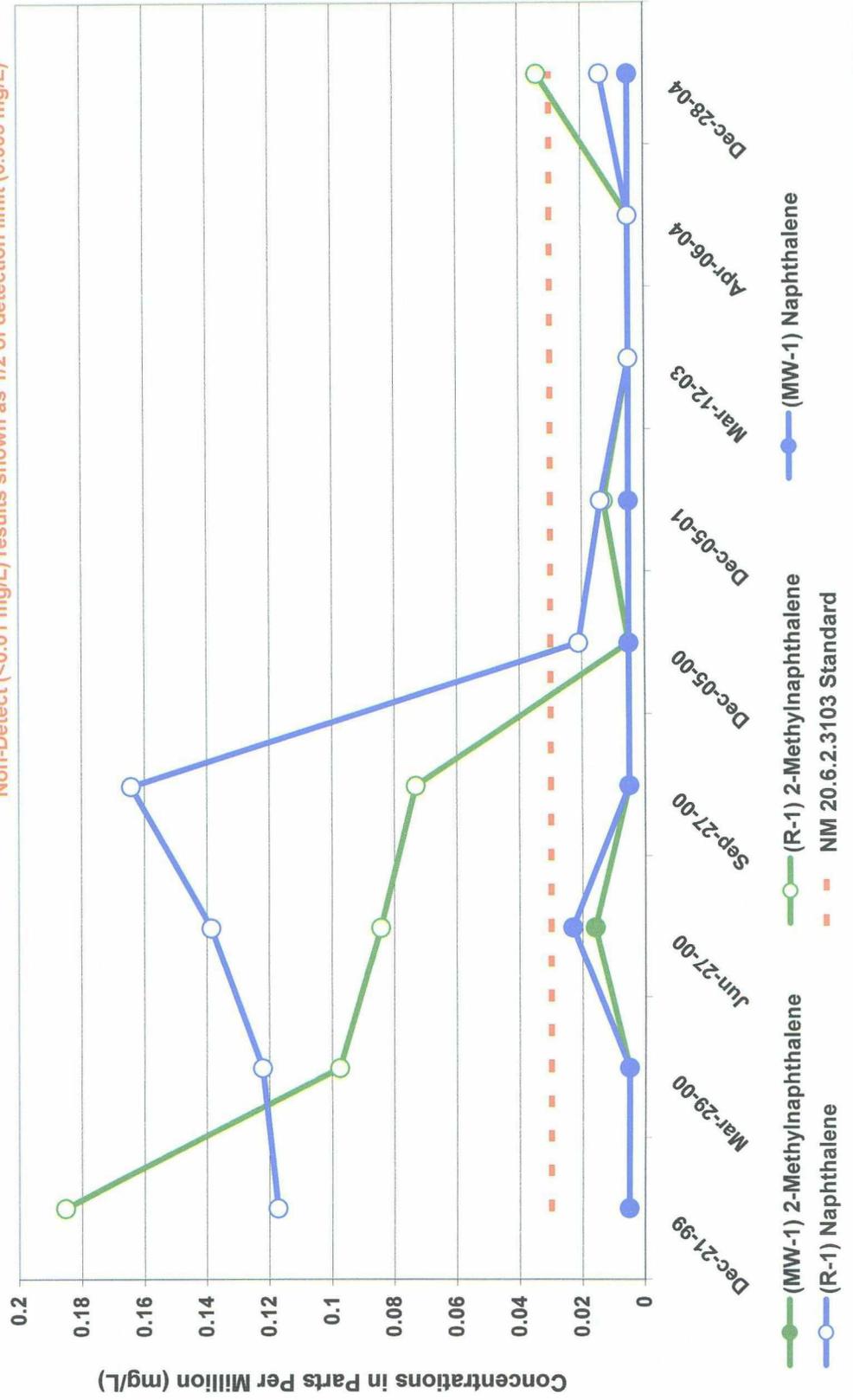
Footnote: (1)
Referenced in NMOCDC
correspondence dated March 8, 1995
from William C. Olson

<0.01	0.013	0.0843
not detected at indicated concentration	detected at indicated concentration but below abatement standard setforth in NM 20.6.2.3103	detected at indicated concentration and above abatement standard setforth in NM 20.6.2.3103

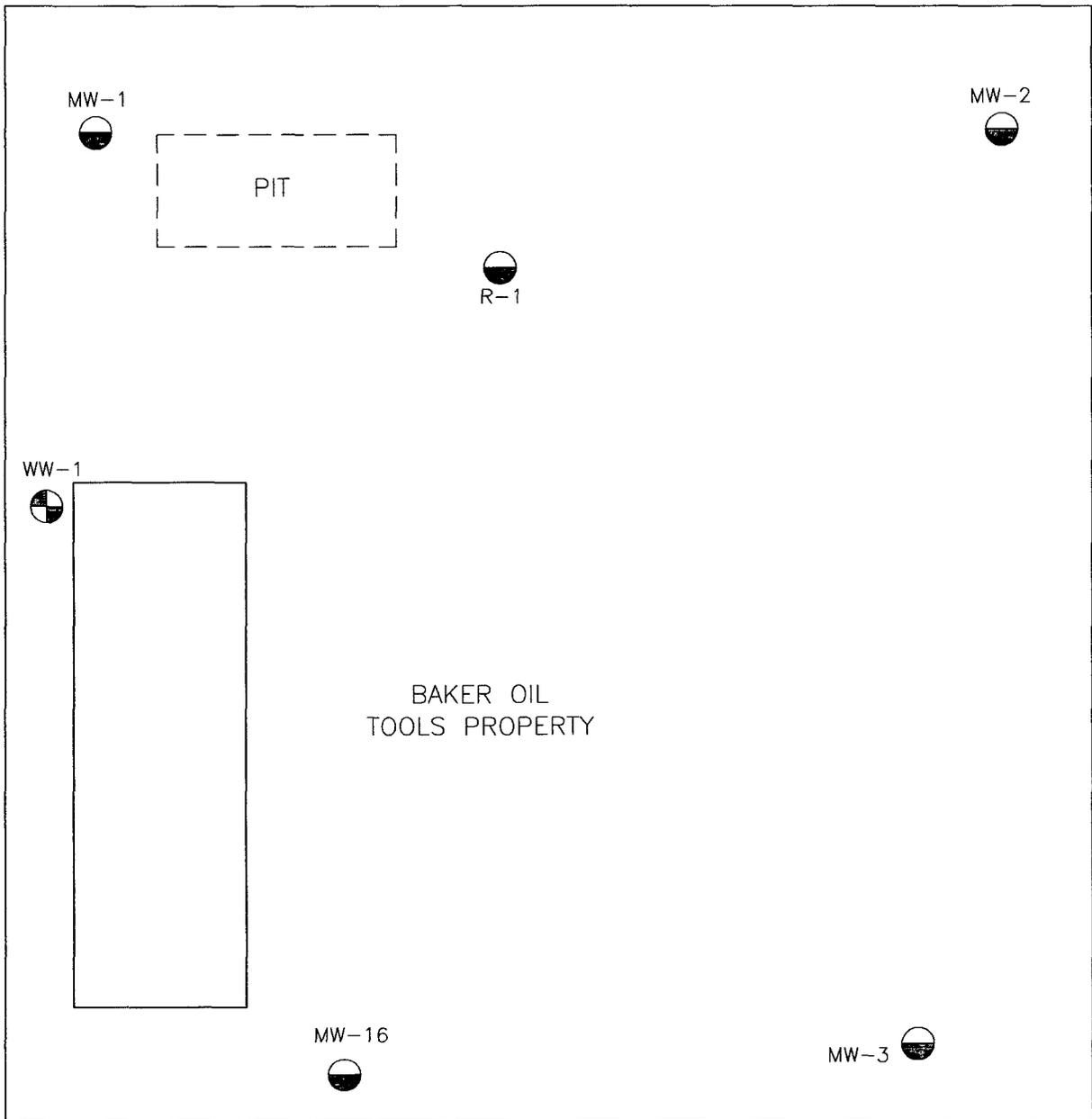
TABLE 2 (continued)
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
 Baker Oil Tools - Hobbs, New Mexico

Baker Oil Tools - Hobbs, NM
GRAPH OF HISTORICAL ANALYTICAL RESULTS - WELLS MW-1 & R-1

Non-Detect (<0.01 mg/L) results shown as 1/2 of detection limit (0.005 mg/L)



Figures



CARLSBAD HIGHWAY U.S. 62-180

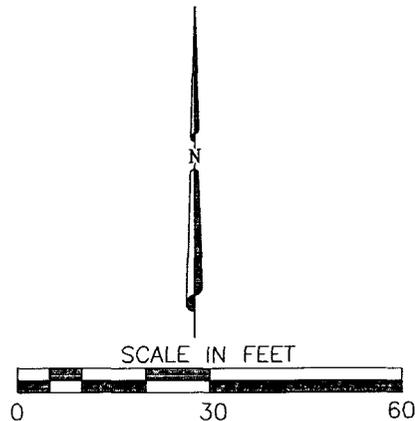
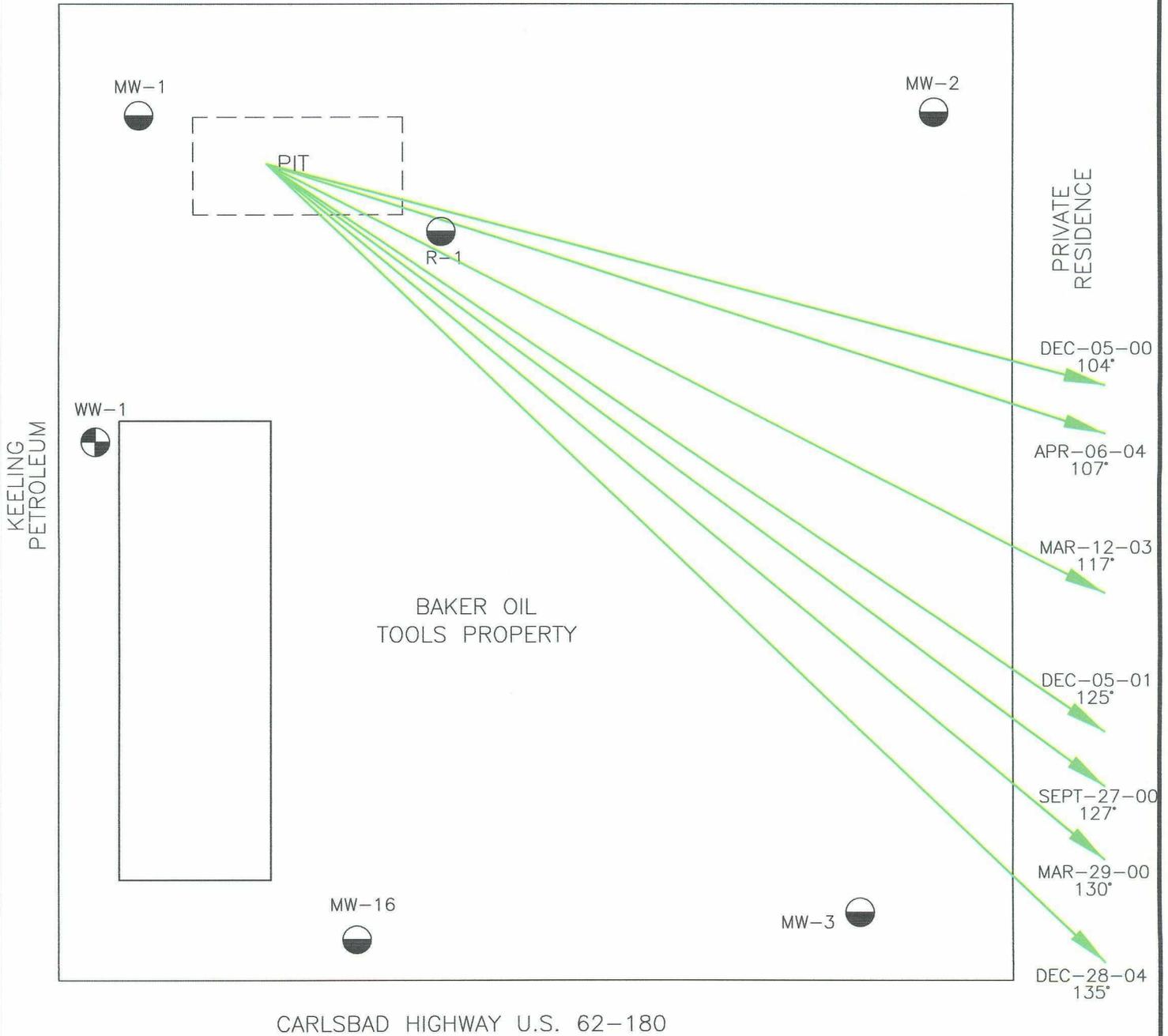


FIGURE 1
SITE WELL LOCATION MAP

FORMER BAKER OIL TOOLS
2800 WEST MARLAND
HOBBS, NEW MEXICO



DWN. BY: H. CURINGTON
APPROVED BY: R.L.S.
DATE: 2/17/06
PROJ. # 50-21007.04
FILE # 10070402



AVERAGE DIRECTION = 121°

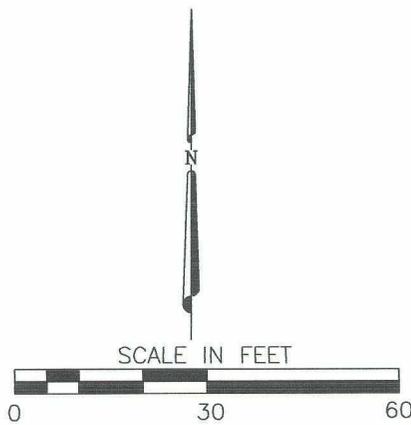


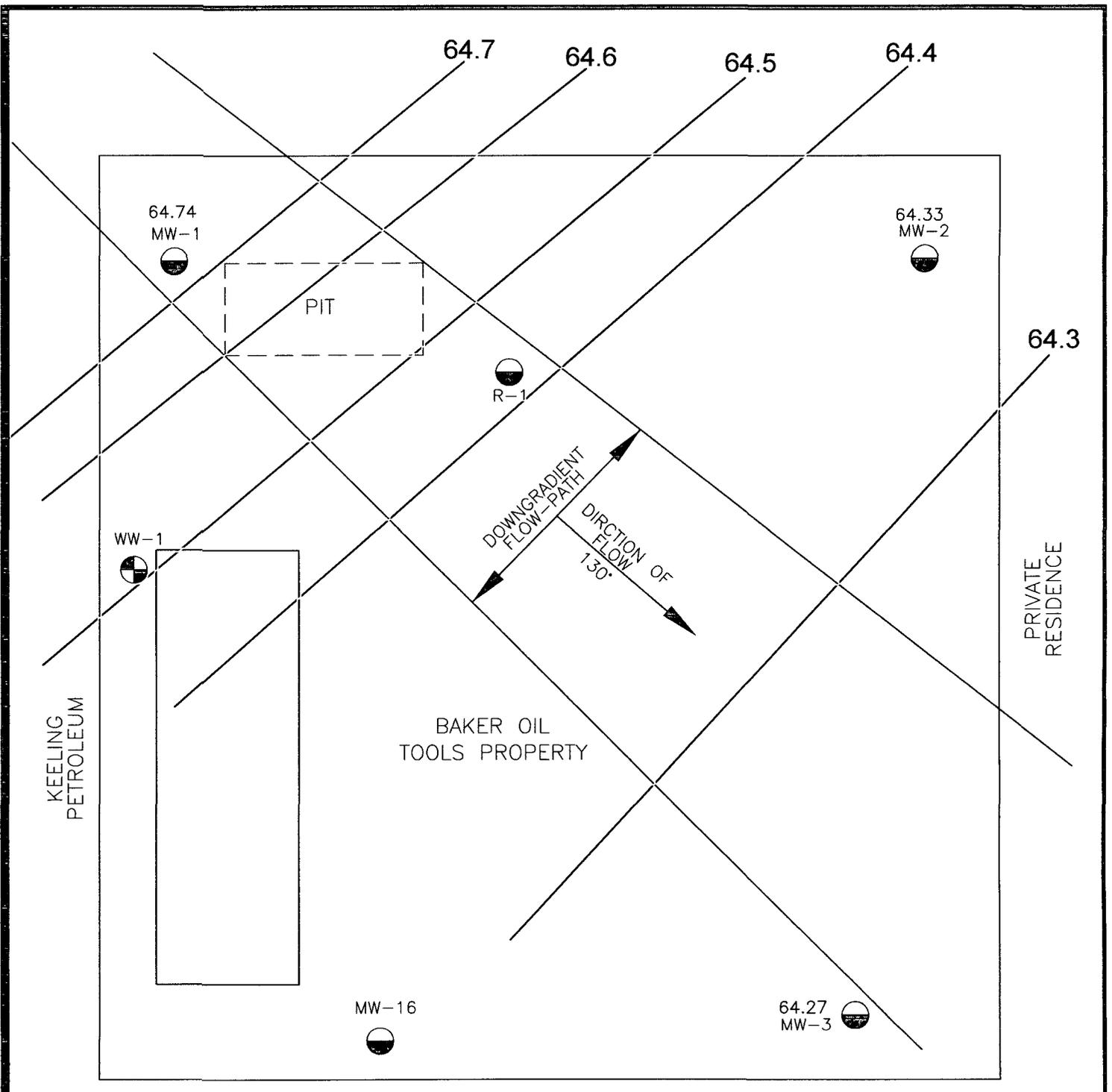
FIGURE 2
HISTORIC GROUNDWATER FLOW
PATH DIRECTIONS

FORMER BAKER OIL TOOLS
2800 WEST MARLAND
HOBBS, NEW MEXICO

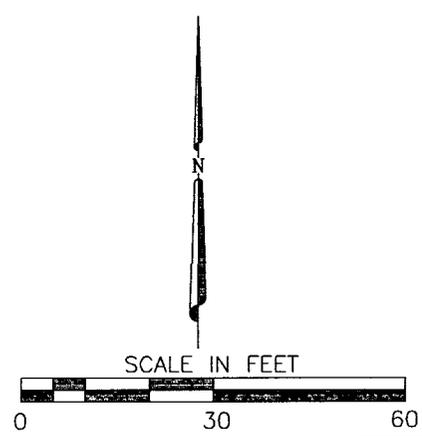


DWN. BY: H. CURINGTON
APPROVED BY: R.L.S.
DATE: 2/17/06
PROJ. # 50-21007.04
FILE # 10070402

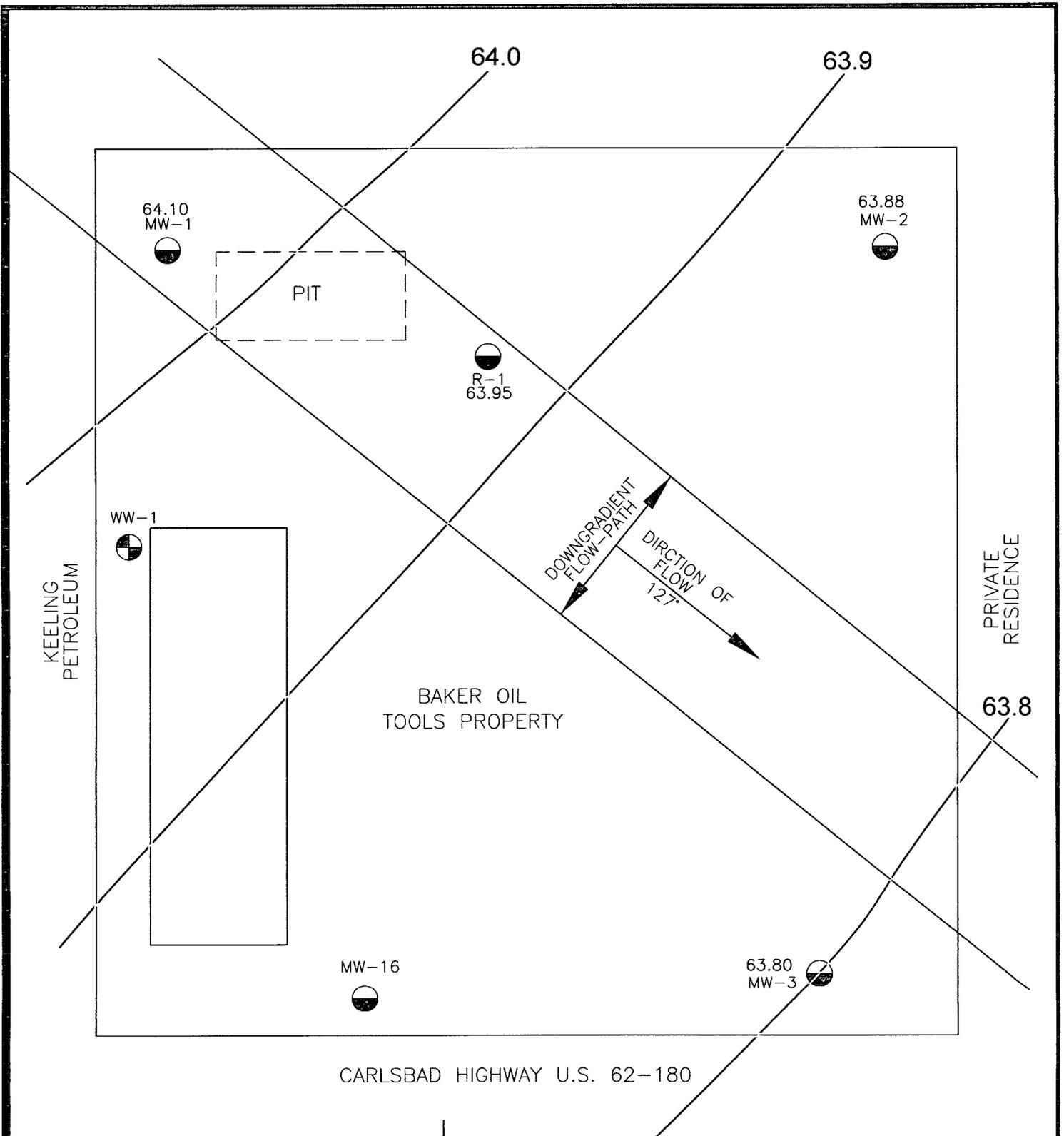
Attachment A
Potentiometric Maps of Groundwater
Elevations



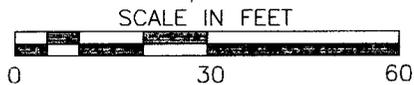
CARLSBAD HIGHWAY U.S. 62-180



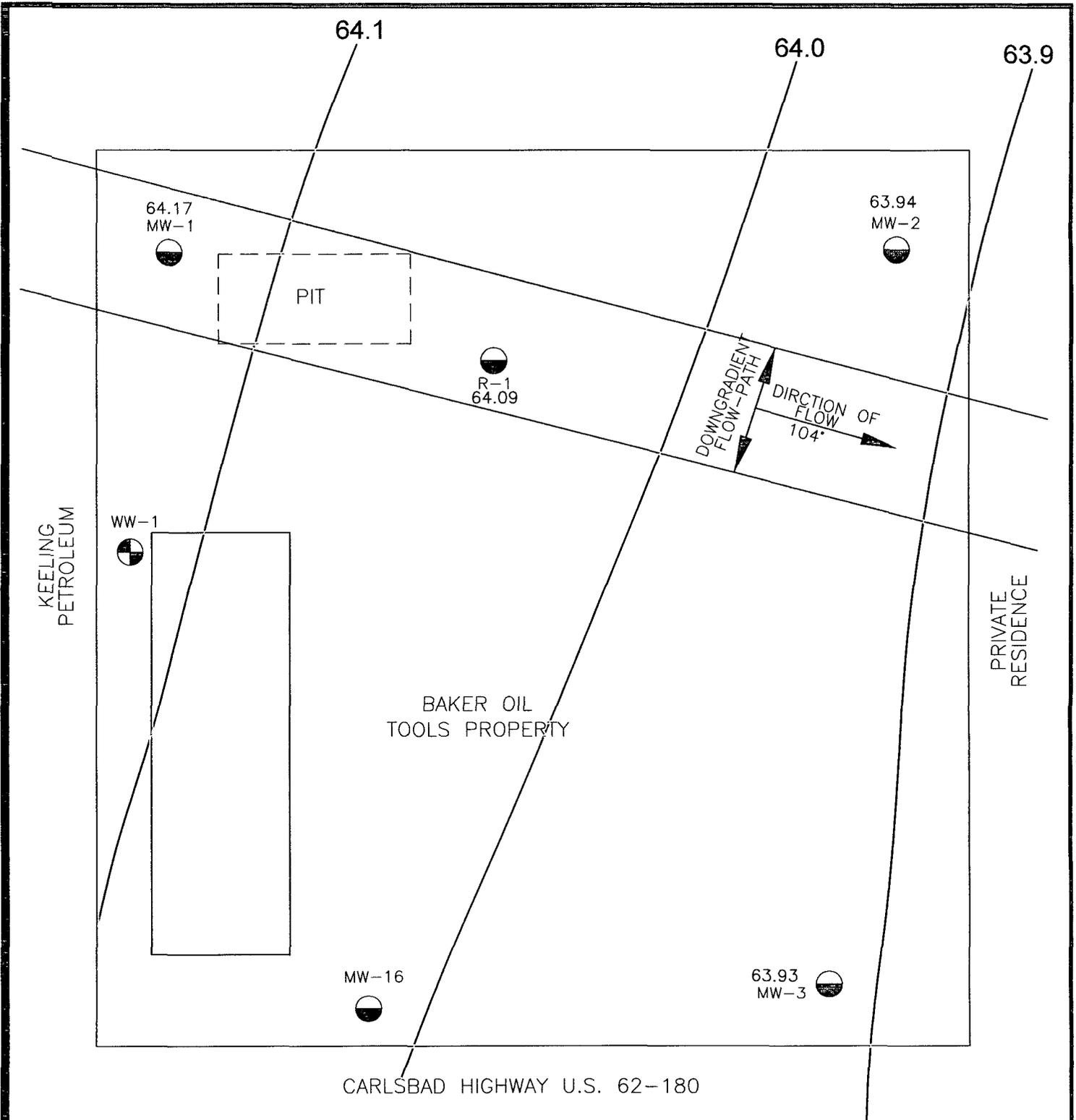
ATTACHMENT A POTENTIOMETRIC MAP OF SATIC GROUNDWATER LEVELS MARCH 29, 2000	
FORMER BAKER OIL TOOLS 2800 WEST MARLAND HOBBS, NEW MEXICO	
	DWN. BY: H. CURINGTON
	APPROVED BY: R.L.S.
	DATE: 2/17/06
	PROJ. # 50-21007.04
FILE # 10070402	



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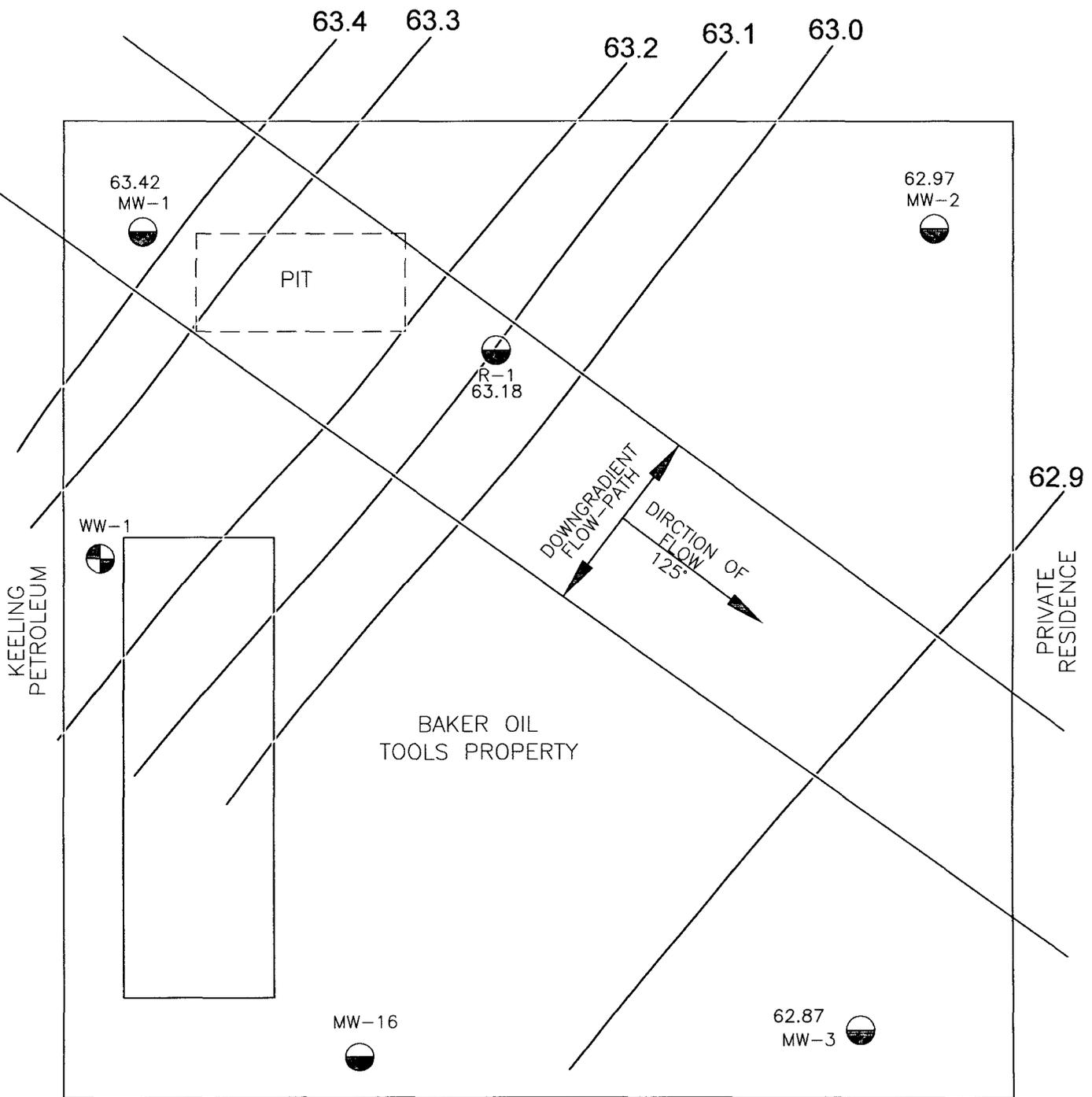
ATTACHMENT A POTENTIOMETRIC MAP OF SATIC GROUNDWATER LEVELS SEPTEMBER 27, 2000	
FORMER BAKER OIL TOOLS 2800 WEST MARLAND HOBBS, NEW MEXICO	
	DWN. BY: H. CURINGTON APPROVED BY: R.L.S. DATE: 2/17/06 PROJ. # 50-21007.04 FILE # 10070402



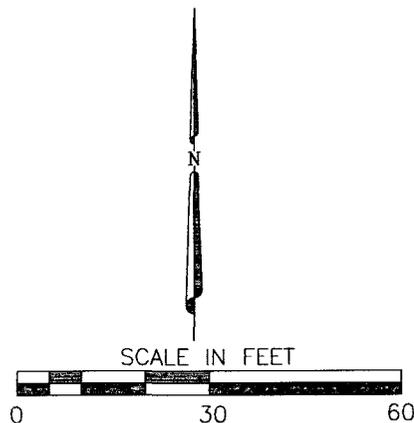
SCALE IN FEET



ATTACHMENT A POTENTIOMETRIC MAP OF SATIC GROUNDWATER LEVELS DECEMBER 5, 2000	
FORMER BAKER OIL TOOLS 2800 WEST MARLAND HOBBS, NEW MEXICO	
	DWN. BY: H. CURINGTON
	APPROVED BY: R.L.S.
	DATE: 2/17/06
	PROJ. # 50-21007.04
	FILE # 10070402



CARLSBAD HIGHWAY U.S. 62-180

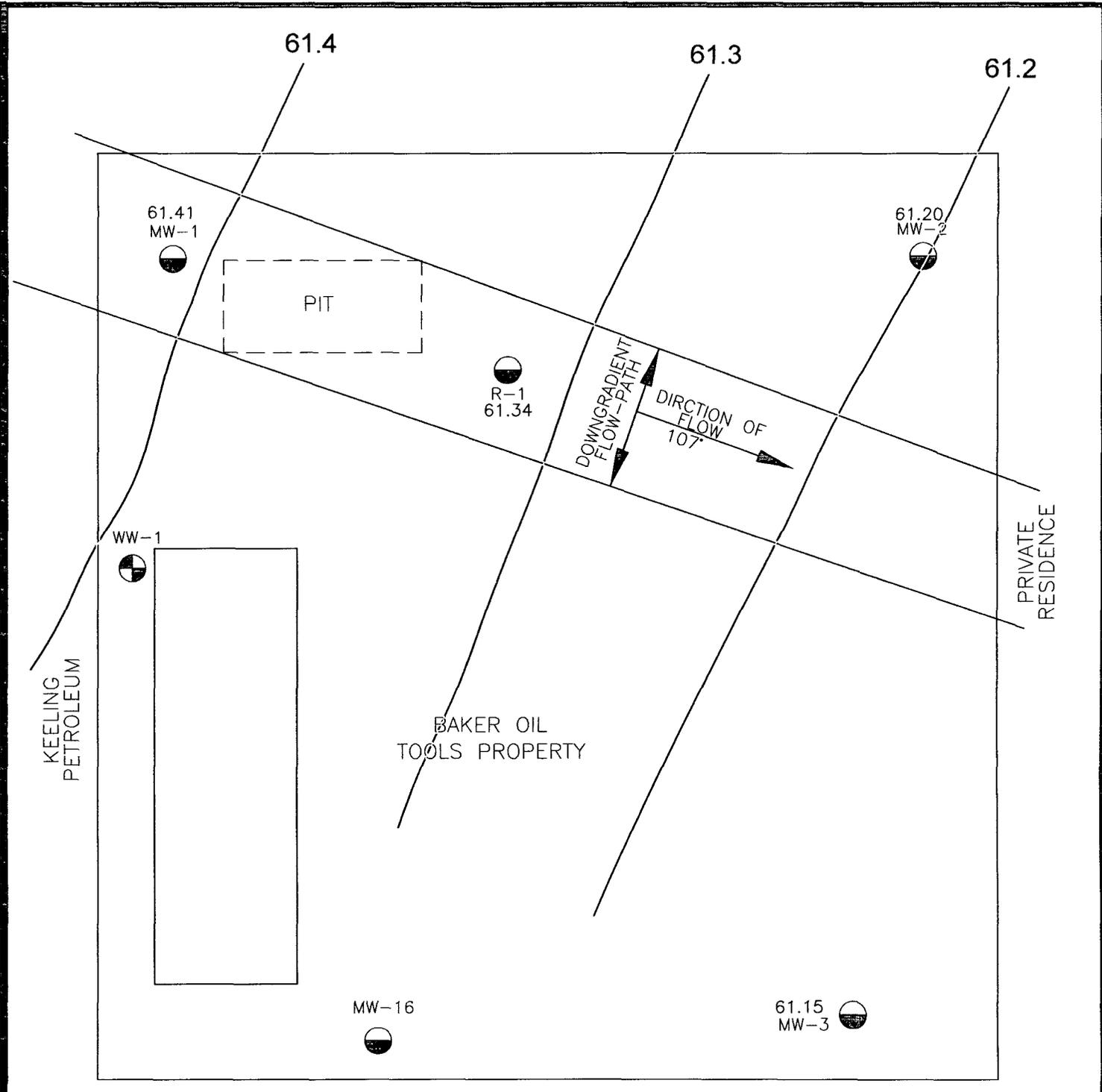


ATTACHMENT A
 POTENTIOMETRIC MAP OF
 SATIC GROUNDWATER LEVELS
 DECEMBER 5, 2001

FORMER BAKER OIL TOOLS
 2800 WEST MARLAND
 HOBBS, NEW MEXICO



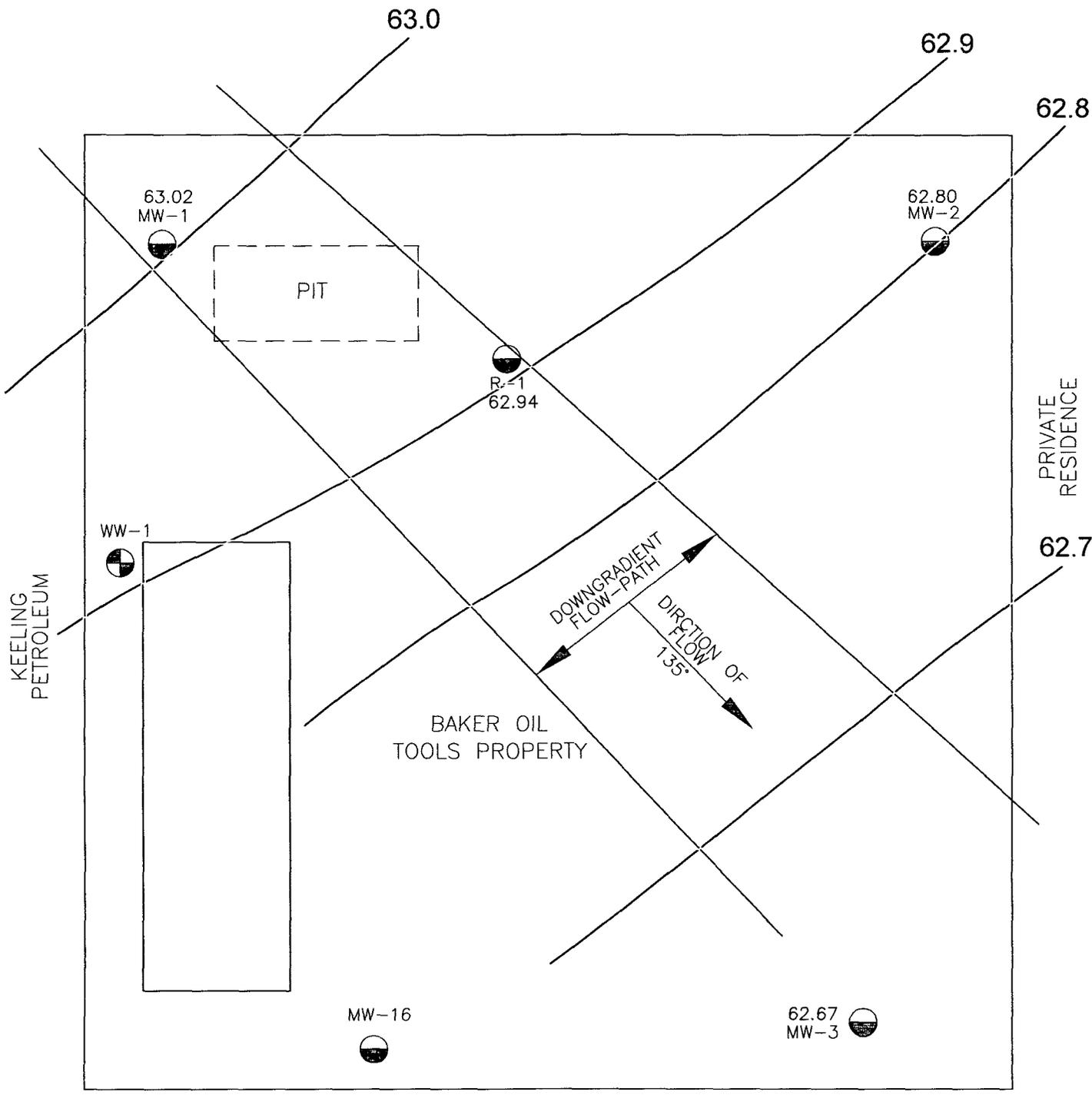
DWN. BY: H. CURINGTON
APPROVED BY: R.L.S.
DATE: 2/17/06
PROJ. # 50-21007.04
FILE # 10070402



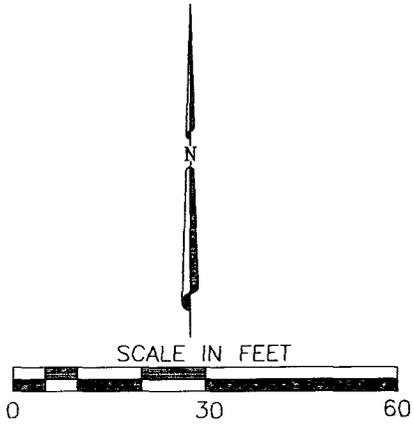
CARLSBAD HIGHWAY U.S. 62-180



ATTACHMENT A POTENTIOMETRIC MAP OF SATIC GROUNDWATER LEVELS APRIL 6, 2004	
FORMER BAKER OIL TOOLS 2800 WEST MARLAND HOBBS, NEW MEXICO	
	DWN. BY: H. CURINGTON
	APPROVED BY: R.L.S.
	DATE: 2/17/06
	PROJ. # 50-21007.04
FILE # 10070402	



CARLSBAD HIGHWAY U.S. 62-180



ATTACHMENT A POTENTIOMETRIC MAP OF SATIC GROUNDWATER LEVELS DECEMBER 28, 2004	
FORMER BAKER OIL TOOLS 2800 WEST MARLAND HOBBS, NEW MEXICO	
	DWN. BY: H. CURINGTON
	APPROVED BY: R.L.S.
	DATE: 2/17/06
	PROJ. # 50-21007.04
	FILE # 10070402

Attachment B
March 8, 1995 NM EMNRD Correspondence



STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
2040 S. PACHECO
SANTA FE, NEW MEXICO 87505
(505) 827-7131

March 8, 1995

CERTIFIED MAIL
RETURN RECEIPT NO. P-667-242-219

Mr. Thomas V. Stenbeck
Baker Oil Tools
P.O. Box 40129
9100 Emmott Rd.
Houston, Texas 77240-0129

RE: BAKER OIL TOOLS HOBBS FACILITY

Dear Mr. Stenbeck:

The New Mexico Oil Conservation Division (OCD) has completed a review of Baker Oil Tools, Inc. (Baker) January 13, 1995 "SITE ASSESSMENT REPORT, BAKER OIL TOOLS, 2800 W. MARLAND, HOBBS, NM". This document contains the results of Baker's investigation of ground water contamination at Baker's oilfield service company facility located at 2800 West Marland in Hobbs, New Mexico.

While the OCD approves of the investigation work performed, the investigation does show high levels of naphthalenes directly adjacent to the former pit location and high levels of benzene in well WW-1. It appears that the high levels of benzene in well WW-1 are a result of contamination migrating from the upgradient Keeling Petroleum site and the OCD has referred the contamination in this well to the New Mexico Environment Department for action. However, the naphthalenes in the ground water and high soil TPH levels in the former pit appear to result from Baker's pit disposal activities.

Therefore, the OCD requests that Baker submit a plan to address the contamination in the direct vicinity of the former pit. Please submit the plan to the OCD Santa Fe Office with a copy provided to the OCD Hobbs Office.

If you have any questions, please call me at (505) 827-7154.

Sincerely,

William C. Olson
Hydrogeologist
Environmental Bureau

xc: Jerry Sexton, OCD Hobbs District Supervisor
Wayne Price, OCD Hobbs Office

Attachment C
Sampling program and Field data Collection
Forms



GROUNDWATER SAMPLING FIELD PROGRAM SHEET

HOBBS FACILITY

Baker Hughes

Facility:	Baker Oil Tools	Site
Address:	2800 West Marland Hobbs, New Mexico	Junior Hernandez, Reg. Mngr American Safety Services 505-393-8830 / 505-390-6733

Form Date: FEB-01-2006 / Revised:

Sampling Reference In:

New Mexico Energy, Minerals and Natural Resources Department
Oil and Conservation Division

Glenn VonGonten

Event(s) Schedule:

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1 Event in 1st Quarter			1 Event in 2nd Quarter			1 Event in 3rd Quarter			1 Event in 4th Quarter		

2006

Sampling Locations:

WELL	USE
MW-1	Background
R-1	Downgradient
MW-3	Downgradient

ANALYTICAL SAMPLING

DO NOT SAMPLE ANY WELLS CONTAINING
MEASURABLE PHASE-SEPARATED
HYDROCARBON

WATER LEVELS ONLY

WELL	CONTAINER
MW-2	1-Liter Amber Glass, no treat
MW-16	
WW-1	Measurement completed in field

Analysis Performed:

PARAMETER	TARGET	METHOD	HOLDING	BLANK	QA/QC
2-Methylnaphthalene	4.1	S-8270C	7 days	---	I & II
Naphthalene	2	S-8270C	7 days	---	I & II
pH	na	Field	immediate		I & II
Specific Conductance	na	Field	immediate		I & II
Temperature	na	Field	immediate		I & II

T = trip blank, F = field blank, D = duplicate sample

QA/QC Samples

SAMPLE TYPE	FREQUENCY COLLECTED	ANALYSIS PERFORMED	NO. PER EVENT
TRIP BLANK	One per Ice chest	Volatile Organics Only	0
FIELD BLANK	One per Event	Volatile Organics Only	0

Bottle Sets:

TYPE OF BOTTLE	# Locations	# per Location	# QA/QC	# EVENT	ANALYZED FOR
1-liter Amber Glass, no treat	3	2	0	6	Semivolatiles (8270)

Baker Oil Tools 2800 W. Marland Street Hobbs, New Mexico 88240-8625			MW-1 Background	R-1 Downgradient	MW-3 Downgradient	FLUID LEVELS ONLY
(A)	Depth To Top Of Hydrocarbon	feet				MW-2 Time: Top PSH: Top Water:
(B)	Depth To Top Of Groundwater	feet				
(C)	Time Of Fluid Measurement	N/A				
(D)	Hydrocarbon Thickness	feet				MW-16 Time: Top PSH: Top Water:
(E)	Total Depth Of Well	feet				
(F)	Height Of Fluid Column In Well (E) - (B)	feet				
(G)	Volume Multiplier (2-INCH WELLS)	N/A	0.17	0.17	0.17	WW-1 Time: Top PSH: Top Water:
(H)	One Static Fluid Volume In Well : [(F) x (G)]	gallons				
(I)	Three Static Volumes To Be Purged : [(H) x 3]	gallons				
(J)	Volume Purged	gallons				Time: Top PSH: Top Water:
(K)	pH	stn units				
(L)	Specific Conductance	μmhos /cm ³				
(M)	Temperature	°F				
(N)	Appearance Observations	Clarity				
(O)		Color				
Inspect.	Is there damage to:	Well Pad:	[]Yes []No	[]Yes []No	[]Yes []No	
		Well Casing:	[]Yes []No	[]Yes []No	[]Yes []No	
		Pump / Bailer:	[]Yes []No	[]Yes []No	[]Yes []No	
		Well Cap:	[]Yes []No	[]Yes []No	[]Yes []No	
	1-liter Amber Glass w/ No Treat	# Bottles	2	2	2	
	SAMPLER'S INITIALS:					
	DATE SAMPLED:					

Notes on any well damage noted on this page >

Client: Baker Hughes
 Location: Baker Oil Tools
 RMT Job Number: 50-21007.03
 Sampling Program: NMOCD
 Analytical Program: na
 TRRP Report Required? No
 Dry Weight Reporting Required? No
 Special Reporting Limits Needed? No

Samples Analyzed as part of:

Compliance Monitoring? YES NO
 TRRP Investigation? YES NO
 TRRP Closure? YES NO

Signature	Date	Time

Sampling Performed in Quarters 1, 2, 3, & 4 of 2006			ANALYSIS			
SAMPLE ID	SAMPLE SPECIFICS		CONTAINER	2-Methyl-naphthalene SW-8270C	Naphthalene SW-8270C	PRESV
	DATE	TIME				
MW-1			1-Liter Amber Glass no treat 2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Cool 4°C
R-1			2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Cool 4°C
MW-3			2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Cool 4°C
				<input type="checkbox"/>	<input type="checkbox"/>	
				<input type="checkbox"/>	<input type="checkbox"/>	
				<input type="checkbox"/>	<input type="checkbox"/>	
				<input type="checkbox"/>	<input type="checkbox"/>	
				<input type="checkbox"/>	<input type="checkbox"/>	
				<input type="checkbox"/>	<input type="checkbox"/>	
NOT A SAMPLE ENTRY			6	3	3	
TOTALS						



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