GW - 21

APPROVALS

YEAR(S) 2009

Hansen, Edward J., EMNRD

From: Sent:	Hansen, Edward J., EMNRD Wednesday, June 17, 2009 4:00 PM
То:	'Persaud, Terry'; Dennis_Newman@oxy.com
Cc:	Caudill, Ted L.; Kurki, Vijay K.; alan.reed@arcadis-us.com; Lowe, Leonard, EMNRD;
Cubic etc	David_Edwards@oxy.com; Mark_Treesh@oxy.com; Peacock, Paul RE: GW-21 Plugging Report Approval
Subject:	ne. (3W-21 Flugging hepoir Approval

Dear Mr. Persaud:

The OCD is now anticipating the submittal of the 2009 annual groundwater report by July 31, 2009.

Edward J. Hansen Hydrologist Environmental Bureau

From: Persaud, Terry [mailto:tcpersaud@marathonoil.com]
Sent: Wednesday, June 17, 2009 2:54 PM
To: Dennis_Newman@oxy.com
Cc: Caudill, Ted L.; Kurki, Vijay K.; alan.reed@arcadis-us.com; Lowe, Leonard, EMNRD; David_Edwards@oxy.com; Mark_Treesh@oxy.com; Hansen, Edward J., EMNRD; Peacock, Paul
Subject: RE: GW-21 Plugging Report Approval

Ed,

As discussed a few minutes ago, the 2009 annual groundwater monitoring report for remaining 15 monitoring wells will be submitted by July 31, 2009.

thanks Terry

From: Dennis_Newman@oxy.com [mailto:Dennis_Newman@oxy.com]
Sent: Wednesday, June 17, 2009 3:05 PM
To: edwardj.hansen@state.nm.us; Persaud, Terry
Cc: Caudill, Ted L.; Kurki, Vijay K.; alan.reed@arcadis-us.com; Leonard.Lowe@state.nm.us; David_Edwards@oxy.com;
Mark_Treesh@oxy.com
Subject: RE: GW-21 Plugging Report Approval

Ed -

Thanks for copying me on the email. I have talked to Terry Persaud (Marathon) and Marathon will be submitting the 2009 Annual Groundwater Monitoring Report, since the groundwater field work was completed under Marathon's direction. Regards, Dennis Newman 713-366-5485

From: Hansen, Edward J., EMNRD [mailto:edwardj.hansen@state.nm.us]
Sent: Wednesday, June 17, 2009 12:42 PM
To: Persaud, Terry
Cc: Caudill, Ted L.; Kurki, Vijay K.; Newman, Dennis (Houston); alan.reed@arcadis-us.com; Lowe, Leonard, EMNRD
Subject: GW-21 Plugging Report Approval

RE: "Indian Basin Remediation Project Monitoring Well Plugging Report"

for the Marathon's (now OXY's) Indian Basin Gas Plant (GW-21) Unit Letter G, Section 23, T21S, R23E, NMPM, Eddy County, New Mexico Plugging Report Approval

Dear Mr. Persaud:

The New Mexico Oil Conservation Division (OCD) has received the groundwater monitoring well plugging report for the Indian Basin Gas Plant (GW-21), dated June 11, 2009, and has conducted a review of the report. The plugging report, submitted for the above-referenced site, indicates that Marathon has met the plugging requirements. Therefore, the OCD hereby approves the plugging report. However, the OCD is anticipating the 2009 annual groundwater monitoring report for the remaining 15 monitoring wells this month.

Please be advised that OCD approval of this report does not relieve the owner/operator of responsibility should operations pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the owner/operator of responsibility for compliance with any OCD, federal, state, or local laws and/or regulations.

If you have any questions regarding this matter, please contact me at 505-476-3489.

Edward J. Hansen Hydrologist Environmental Bureau

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This inbound email has been scanned by the MessageLabs Email Security System.

Hansen, Edward J., EMNRD

From: Sent:	Hansen, Edward J., EMNRD Wednesday, June 17, 2009 11:42 AM
То:	Persaud, Terry
Cc:	Caudill, Ted L.; 'Kurki, Vijay K.'; 'Dennis Newman'; 'alan.reed@arcadis-us.com'; Lowe, Leonard, EMNRD
Subject:	GW-21 Plugging Report Approval

RE: "Indian Basin Remediation Project Monitoring Well Plugging Report" for the Marathon's (now OXY's) Indian Basin Gas Plant (GW-21) Unit Letter G, Section 23, T21S, R23E, NMPM, Eddy County, New Mexico Plugging Report Approval

Dear Mr. Persaud:

The New Mexico Oil Conservation Division (OCD) has received the groundwater monitoring well plugging report for the Indian Basin Gas Plant (GW-21), dated June 11, 2009, and has conducted a review of the report. The plugging report, submitted for the above-referenced site, indicates that Marathon has met the plugging requirements. Therefore, the OCD hereby approves the plugging report. However, the OCD is anticipating the 2009 annual groundwater monitoring report for the remaining 15 monitoring wells this month.

Please be advised that OCD approval of this report does not relieve the owner/operator of responsibility should operations pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the owner/operator of responsibility for compliance with any OCD, federal, state, or local laws and/or regulations.

If you have any questions regarding this matter, please contact me at 505-476-3489.

Edward J. Hansen Hydrologist Environmental Bureau New Mexico Energy, Minerals and Natural Resources Department

Bill Richardson Governor

Joanna Prukop Cabinet Secretary Reese Fullerton Deputy Cabinet Secretary Mark Fesmire Division Director Oil Conservation Division



February 20, 2009

M. Paul Peacock Marathon Oil Company P.O. Box 3128 Houston, TX 77253-3128

RE: Indian Basin Remediation Project Report and Proposed Well Plugging Request for the Marathon's Indian Basin Gas Plant (GW-21) Eddy County, New Mexico

Dear Mr. Peacock:

The New Mexico Oil Conservation Division (OCD) has reviewed Marathon's report, Evaluation of Natural Attenuation, Indian Basin Remediation Project [IBRP], Eddy County, New Mexico, dated May 12, 2008, and Proposed IBRP Well Plugging Program [Request], dated February 5, 2009. The report and request are substantially acceptable to the OCD. Therefore, the OCD hereby conditionally approves the discontinuance of active remediation at the above-referenced site.

However, at least annual groundwater monitoring for BTEX, TDS and chloride at the 13 proposed wells as specified in the Well Plugging Request plus at an additional two groundwater monitoring wells, MW-81 and MW-113, for a total of 15 wells must continue unless otherwise approved by the OCD. Also, at least semi-annually gauging of depth to groundwater and non-aqueous phase liquid thickness at these 15 wells must continue unless otherwise approved by the OCD. Marathon must continue to submit an annual groundwater monitoring report to the OCD unless otherwise approved by the OCD.

In addition, the material used to plug the 98 (the 100 proposed minus the 2 rejected) groundwater monitoring wells as specified in the Request must be a cement grout with 1% to 3% bentonite. Please submit to the OCD a final plugging report within 180 days of receipt of this letter.



M. Paul Peacock GW-21 February 20, 2009 Page 2

Please be advised that OCD approval of this report and request does not relieve the owner/operator of responsibility should operations pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the owner/operator of responsibility for compliance with any OCD, federal, state, or local laws and/or regulations.

Thank you for your cooperation in this matter. If you have any questions regarding this matter, please contact Edward Hansen of my staff at 505-476-3489 or edwardj.hansen@state.nm.us.

Sincerely,

Wayne Price Environmental Bureau Chief

WP:EJH:ejh

cc:

OCD; Artesia District Office

Terry Persaud, P.E., Marathon Oil Company, P.O. Box 3128, Houston, TX 77253-3128

ARCADIS

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2003 FEB 12 AM 11 33

Mr. Terry Persaud, P.E. Marathon Oil Company P.O. Box 3487 Mail Stop 32:07 Houston, Texas 77253-3487

Subject: Proposed Indian Basin Remediation Project Well Plugging Program

Dear Mr. Persaud:

Based on the recent meeting between Marathon Oil Company (MOC) and the New Mexico Oil Conservation Division (NMOCD) representatives, it is understood that the NMOCD has reviewed the report titled "Evaluation of Natural Attenuation, Indian Basin Remediation Project, Eddy County, New Mexico" dated May 12, 2008 and agreed with the conclusions of the report. As a follow-up to the meeting between MOC and the NMOCD and the recommendations in the natural attenuation report, ARCADIS has prepared a list of wells that will be included in the Indian Basin Gas Plant discharge plan. The remaining wells will be plugged and abandoned. The wells recommended to retain are listed in Table 1. The wells recommended to be plugged and abandoned are listed in Table 2. The well locations in the Shallow Zone are identified on the attached Figure 1, and the well locations in the Lower Queen are identified on the attached Figure 2.

ARCADIS has reviewed the groundwater sampling data available through 2007 and groundwater fluid level measurement data available through 2008 for currently active monitor wells in order to select the wells that will be retained, and the wells that will be plugged and abandoned. The wells selected to retain are strategically located to monitor potential downgradient migration and provide a reasonable distribution of wells for future monitoring should it be required by the NMOCD. In addition, at least one upgradient monitor well was selected.

Shallow Zone Monitor Wells

The groundwater hydraulic gradient in the Shallow Zone is to the southeast. A total of 7 wells are recommended to be retained in the Shallow Zone. The wells include MW-14, MW-45, MW-46, MW-49, MW-77, MW-106 and MW-126.

Lower Queen Monitor Wells

The groundwater gradient in the Lower Queen is generally to the north. A total of 6 wells are recommended to be retained in the Lower Queen. The wells include MW-58, MW-66, MW-70, MW-88, MW-111 and MW-127.

ARCADIS U.S., Inc. 1004 North Big Spring Street Suite 300 Midland, Texas 79701 Tel 432 687 5400 Fax 432 687 5401 www.arcadis-us.com

ENVIRONMENTAL

Date: 5 February 2009

Contact: Alan Reed

Phone: Ext 162 432.687.5400

Email: alan.reed@arcadis-us.com

Our ref:

ARCADIS

Mr. Terry Persaud 5 February 2009

If you have any questions regarding the selection of the monitor wells to be retained in the Indian Basin Gas Plant discharge plan, please contact us.

Very truly yours,

ARCADIS U.S., Inc.

Alan G. Rud, fr.

Alan J. Reed, Jr., P.E. Project Manager

David B. Vance

David B. Vance Principal Scientist

X

Steven P. Tischer Associate Vice President

Page 1 of 1

Table 1

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Wells Recommended to Retain

Marathon Oil Company, Indian Basin Remediation Project, Eddy County, New Mexico.

Well	ID Well Type	Measuring Point Elevation (feet amsl)	Total Depth (feet btoc)	Top of Screen/ OpenHole Interval (feet btoc)	Screen/Open Hole Depth (feet)	Casing Diameter (inches)
Shallow Zone MW-	14 monitoring	3803.61	22.00	12.00	10.00	4
Shallow Zone MW-	45 monitoring	3808.68	24.00	9.50	14.50	2
Shallow Zone MW-	46 monitoring	3805.54	18.00	8.00	10.00	4
Shallow Zone MW-	49 monitoring	3805.61	24.00	14.00	10.00	2
Shallow Zone MW-	77 monitoring	3775.48	80.00	17.50	62.50	8
Shallow Zone MW-	106 monitoring	3721.97	92.00	12.50	79.5	4
Shallow Zone MW-	126 phase II infill	3795.58	70.00	30.00	40.00	7
Lower Queen MW-	58 recovery	3824.07	216.00	191.00	25.00	4
Lower Queen MW-	66 monitoring	3828.98	232.50	182.00	50.50	4
Lower Queen MW-	70 monitoring	3822.57	222.00	172.00	50.00	4
Lower Queen MW-	88 monitoring	3789.7	175.00	142.50	32.50	8
Lower Queen MW-	111 monitoring	3824.44	230.00	190.00	40.00	4
Lower Queen MW-	127 phase II infill	3825.17	245.00	195.00	50.00	4

Notes: feet amsl feet btoc

Feet above mean sea level Feet below top of casing

Table 2

Wells Recommended to be Plugged and Abandoned Marathon Oil Company, Indian Basin Remediation Project, Eddy County, New Mexico.

Well 1	D Well Type	Measuring Point Elevation (feet amsl)	Total Depth (feet btoc)	Top of Screen/ OpenHole Interval (feet btoc)	Screen/Open Hole Depth (feet)	Casing Diameter (inches)
Shallow Zone MW-4	monitoring	3785.88	17.00	8.00	9.00	2
Shallow Zone MW-1	0 monitoring	3790.78	17.00	7.00	10.00	4
Shallow Zone MW-1	1 monitoring	3806.96	22.00	12.00	10.00	4
Shallow Zone MW-1	2 monitoring	3809.86	23.00	13.00	10.00	2
Shallow Zone MW-1	3 monitoring	3801.58	20.00	10.00	10.00	2
Shallow Zone MW-1	6 monitoring	3801.04	20.00	10.00	10.00	4
Shallow Zone MW-1	7 monitoring	3799.55	18.00	8.00	10.00	2
Shallow Zone MW-1	9 monitoring	3797.21	17.00	7.00	10.00	4
Shallow Zone MW-2	2 monitoring	3799.20	16.00	6.00	10.00	2
Shallow Zone MW-2	4 monitoring	3794.09	11.00	6.00	5.00	2
Shallow Zone MW-2	•	3793.01	19.00	9.00	10.00	2
Shallow Zone MW-3	•	3797.47	14.00	9.00	5.00	2
Shallow Zone MW-4	•	3799.04	22.00	12.00	10.00	4
Shallow Zone MW-4	•	3802.05	22.00	12.00	10.00	4
Shallow Zone MW-4	0	3805.09	19.00	9.00	10.00	2
Shallow Zone MW-4	•	3806.18	18.00	8.00	10.00	2
Shallow Zone MW-5	•	3813.35	35.00	20.00	15.00	2
Shallow Zone MW-5	•	3810.86	18.00	8.00	10.00	2
Shallow Zone MW-5		3823.86	76.00	41.00	35.00	4
Shallow Zone MW-5	J	3794.40	65.00	20.00	45.00	4
Shallow Zone MW-5	5	3782.45	42.00	27.00	15.00	4
Shallow Zone MW-6	0	3816.20	55.00	45.00	10.00	4
Shallow Zone MW-6		3763.31	55.00	35.00	20.00	4
Shallow Zone MW-6		3805.11	48.00	13.00	35.00	4
Shallow Zone MW-7	· · · · · · · · · · · · · · · · · · ·	3785.82	85.00	13.00	72.00	8
Shallow Zone MW-7	•	3788.39	80.00	8.00	72.00	8
Shallow Zone MW-9	v	3781.73	60.00	12.50	47.50	4
Shallow Zone MW-9		3783.07	70.00	12.50	57.50	4
Shallow Zone MW-1	v	3773.31	70.00	12.50	57.50	4
Shallow Zone MW-1	· · · J	3736.93	80.00	12.50	67.5	4
Shallow Zone MW-1	•	3809.53				
Shallow Zone MW-1	•	3807.86	47.00	17.00	30.00	4
Shallow Zone Sump	A10 monitoring	3800.99				
Shallow Zone Sump	16A monitoring	3785.14				
Lower Queen MW-5	7 monitoring	3787.70	175.00	155.00	20.00	4
Lower Queen MW-5	9 monitoring	3819.59				
Lower Queen MW-6	Ŭ	3815.28	220.00	170.00	50.00	4
Lower Queen MW-6	1A monitoring	3819.97	214.00	173.50	40.50	4
Lower Queen MW-6	2 monitoring	3819.90	223.00	177.00	46.00	4
Lower Queen MW-6	3 monitoring	3826.16	220.00	174.00	46.00	4
Lower Queen MW-6	4 monitoring	3798.57	200.00	154.00	46.00	4
Lower Queen MW-6	5A recovery	3763.26	166.00	115.00	51.00	4

Table 2

Wells Recommended to be Plugged and Abandoned Marathon Oil Company, Indian Basin Remediation Project, Eddy County, New Mexico.

Well ID		Well Type	Measuring Point Elevation (feet amsl)	Total Depth (feet btoc)	Top of Screen/ OpenHole Interval (feet btoc)	Screen/Open Hole Depth (feet)	Casing Diameter (inches)
Lower Queen	MW-67	monitoring	3765.87	163.00	112.00	51.00	4
Lower Queen	MW-68	recovery	3797.83	200.00	149.00	51.00	4
Lower Queen	MW-71	monitoring	3778.05	233.00	165.00	68.00	4
Lower Queen	MW-72	dual recovery	3819.32	241.50	181.50	60.00	6
Lower Queen	MW-73	monitoring	3820.09	220.00	10.00	210.00	8
Lower Queen	MW-74	monitoring	3820.82	220.00	170.00	50.00	6
Lower Queen	MW-75	dual recovery	3816.12	220.00	170.00	50.00	6
Lower Queen	MW-76	recovery	3796.01	220.00	9.00	211.00	8
Lower Queen	MW-81	dual recovery	3817.03	225.00	71.00	154.00	8
Lower Queen	MW-82	recovery	3825.07	250.00	67.50	182.50	6
Lower Queen	MW-83	recovery	3794.12	202.00	152.00	50.00	6
Lower Queen		recovery	3759.60	170.00	120.00	50.00	6
Lower Queen	MW-85	dual recovery	3824.93	235.00	162.00	73.00	6
Lower Queen		recovery	3823.99	225.00	185.00	40.00	6
Lower Queen		monitoring	3740.50	170.00	145.00	25.00	4
Lower Queen		monitoring	3739.53	130.00	10.00	120.00	8
Lower Queen		monitoring	3827.68	232.00	188.50	43.50	4
Lower Queen		recovery	3821.48	230.00	65.00	165.00	8
Lower Queen		monitoring	3746.26	145.00	111.00	34.00	4
Lower Queen		monitoring	3739.80	135.00	97.50	37.50	4
Lower Queen		monitoring	3750.16	148.00	107.50	40.50	4
Lower Queen		monitoring	3770.15	165.00	127.50	37.50	4
Lower Queen	MW-104	monitoring	3793.64	220.00	145.00	75.00	6
Lower Queen		monitoring	3747.13				
Lower Queen		recovery	3812.61	235.00	175.00	60.00	6
Lower Queen		phase I infill	3780.11	211.00	140.00	71.00	6
Lower Queen		phase I infill	3772.67	200.00	125.00	75.00	6
Lower Queen		phase I infill	3805.32	220.00	111.00	109.00	8
Lower Queen	MW-115	phase I infill	3804.69	224.00	35.00	189.00	8
Lower Queen	MW-116	phase I infill	3792.11	220.00	150.00	70.00	6
Lower Queen	MW-117A	, phase II infill	3808.24	225.00	46.00	179.00	8
Lower Queen	MW-118	, phase II infill	3762.88	202.00	112.00	90.00	4
Lower Queen	MW-119	phase II infill	3824.74	245.00	185.00	60.00	4
Lower Queen	MW-120	phase II infill	3820.65	240.00	180.00	60.00	4
Lower Queen	MW-121	phase II infill	3820.88	225.00	175.00	50.00	4
Lower Queen	MW-122	, phase II infill	3822.79	225.00	36.00	189.00	7
Lower Queen	MW-123	phase II infill	3768.77	225.00	125.00	100.00	4
Lower Queen	MW-124	phase II infill	3777.83	225.00	17.00	208.00	7
Lower Queen	MW-125	phase II infill	3790.61	225.00	130.00	95.00	4
Lower Queen	MW-128	, phase II infill	3786.08	225.00	37.50	187.50	7
Lower Queen	MW-129	, phase II infill	3800.82	245.00	155.00	90.00	4
Lower Queen	MW-130	phase II infill	3775.54	225.00	145.00	80.00	4
Lower Queen	MW-131	phase II infill	3784.23	245.00	145.00	100.00	4

Table 2

Wells Recommended to be Plugged and Abandoned

Marathon Oil Company, Indian Basin Remediation Project, Eddy County, New Mexico.

.

Well ID	Well Type	Measuring Point Elevation (feet amsl)	Total Depth (feet btoc)	Top of Screen/ OpenHole Interval (feet btoc)	Screen/Open Hole Depth (feet)	Casing Diameter (inches)
_ower Queen∵ IW-1	infiltration	3808.55	230.00	73.00	157.00	12
ower Queen IW-2	infiltration	3835.86	300.00	159.00	141.00	12
_ower Queen SW-1	monitoring	3808.19				
_ower Queen SW-2	monitoring	3808.79				
ower Queen SW-3	monitoring	3842.29	230.00	81.50	148.50	8
_ower Queen VE-1	vapor extraction		214.00	80.00	134.00	8
_ower Queen VE-2	vapor extraction		210.00	75.00	135.00	8
ower Queen VE-3	. vapor extraction		202.00	75.00	127.00	8
_ower Queen VE-4	vapor extraction		183.00	60.00	123.00	8
_ower Queen VE-5	vapor extraction		168.00	60.00	108.00	8
_ower Queen VE-16	vapor extraction	3750.96	150.00	42.50	107.50	8
_ower Queen VE-17	vapor extraction	3756.73	130.00	40.00	90.00	8
ower Queen VE-18	vapor extraction	3756.82	163.00	37.50	125.50	8
ower Queen VE-19	vapor extraction	3761.18	150.00	115.00	35.00	6
ower Queen VE-20	vapor extraction	3768.41	160.00	37.50	122.50	8

Notes: feet amsl feet btoc

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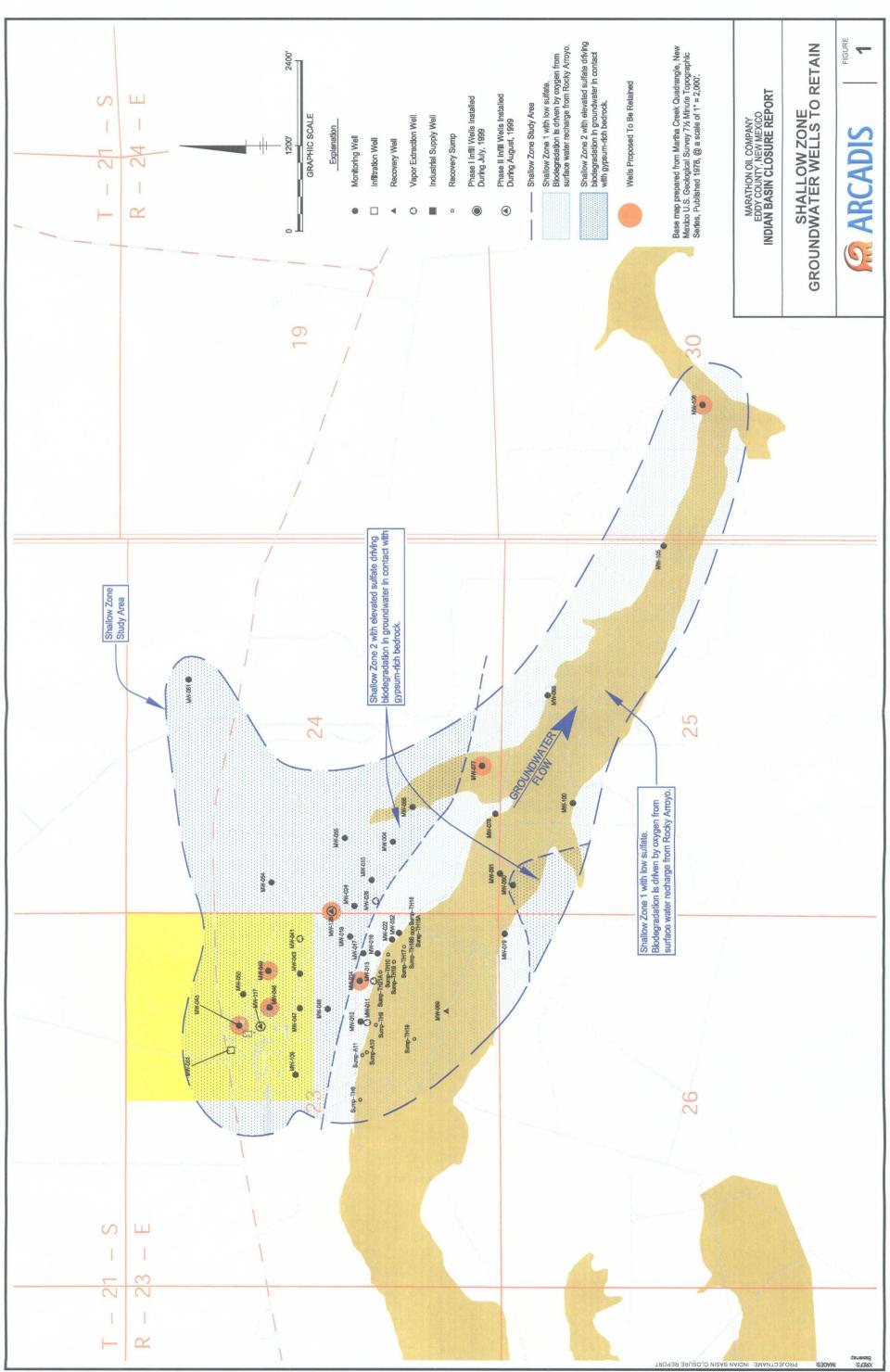
Feet above mean sea level Feet below top of casing

Data not available

	MW-128		00.0		00.0	00.0	00.0	0.00 0.00 0.04 0.00 0.00	00.000000000000000000000000000000000000
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	-74 MW-112		000000000000000000000000000000000000000		0.0000000000000000000000000000000000000	0.0000000000000000000000000000000000000	0.0000000000000000000000000000000000000	0.0000000000000000000000000000000000000	
	69 MW	0.00		0.0000000000000000000000000000000000000	0.00 000 00.00 000 00.00 000 00.00 0000	0.00 00	0.00 00.00 00.00 00.00 00.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
	N	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00	0.0000000000000000000000000000000000000	0.00	0.00 00.00 00.00 00.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00
ŀ	~		0.00	0.0000000000000000000000000000000000000	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.0000000000000000000000000000000000000
	MW-86 N	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0 0.0 0 0.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00 0.00 0.00 0.00	0.00 0.000000	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00
monthly		0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00	000000000000000000000000000000000000000	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 #VALUE! #VALUE! #VALUE! #VALUE!
Formore Generatore Dumning walks manade monthly	WW 84 WW		0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
e mitet h	M 68-W	000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 <	0.00 0.00 0.00 0.00	00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.	00.000000000000000000000000000000000000	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	00.0 00.0 00.0 00.0 00.0 00.0 00.0
low non	VN-82 VV	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	0.00	0.0000000000000000000000000000000000000	0.00 0.00 0.00 0.00	0.00	0.00	0.00	0.0000000000000000000000000000000000000
tor Dum	MV-81	88888888888888888888888888888888888888	0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	2.00 2.00 0.00 0.00 0.00 0.00	0.00	0.00	0.00	0.00
the state of the s	W-75 N	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.00		0.0000000000000000000000000000000000000	0.00	0.00 0.00 0.00 0.00	0.00	0.0000000000000000000000000000000000000
C AD MAR	MW-72 N		0.00	0.0000000000000000000000000000000000000	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00	0.00 0.00 0.00 0.00 0.00 0.00
	MW-65AN		0.00 0.00 0.00 0.00	0.0000000000000000000000000000000000000	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.0000000000000000000000000000000000000
less in feet	MW-58 MM	0.000000000000000000000000000000000000	0.00 0.00 0.00 0.00 0.00	0.0000000000000000000000000000000000000	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00	0.00 0.00 00.00 00.00
Product Thickness in feet	and in case of	2/13/2003 3/10/2003 5/15/2003 6/15/2003 6/15/2003 6/15/2003 8/6/2003 8/6/2003 8/6/2003 8/6/2003 8/12/2003 9/10/2003 9/12/2003	11/07/03 12/04/03 01/08/04 02/12/04 3/25/04	5/27/04 6/17/04 6/17/04 6/19/04 7/16/04 8/19/04 8/19/04 8/19/04 8/10/04 8/10/04 8/10/04	11/19/04 11/22/04 12/07/04 11/11/2005 02/08/05 3/8/05	5/9/2005 6/21/2005 7/19/2005 8/8/2005 9/20/2005	11/11/2005 12/15/2005 1/17/2006 02/07/06 3/7/2006	5/25/2006 6/6/2006 7/19/2006 8/12/2006 9/14/2006	11/28/2006 12/28/2006 1/30/2007 3/6/2007 3/6/2007 Arcadis 5/15/2007
٤L		00000000000000000000000000000000000000				0 0 0 6		0 1 6 6	

in faat

		MW-128	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	00.0	0.00	0.00	0.00	0.00	0.00	0.00	00.0	00.00	0.00	0.00	0.00	
		2 MW-79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		4 MW-12	00			0.00														0.00		
		-117A MW-14		0		0.00 0.0																
		MW-11	00.0														00.00			00.0 0.00		
		NE-16				00.00														00.00	00 0.00	
		0 VE-19		00.00							00.00									0 0.00	0	
		29 MW-130				00.00								00.00				00.00		00.0 01	0.00	
		26 MW-129	00 0.00			0.00 0.00								00 0.01				00 0.00	00 00	0.00	00 0.00	
		MW-126	0				00								0.00		0	0	JEI 0.0		E! 0.0	
1	monthly	MW-125	#VALUE	#VALUE!	#VALUE!	#VALUE!	0	#VALUE!		#VALUE!			#VALUE!	#VALUE!		#VALUE!	#VALUE!	#VALUE!	#VALUE	#VALUE!	#VALUE	
	gauged m	MW-124	#VALUE!	0.00	00.0	0.00	00.0	0.00	0.00	0.00	00.0	0.00	0.00	0.00	0.00	00.00	0.00	00.00	0.00	00.00	0.00	
	Wells should be gauged r	MW-123 MW		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	on Wells s	WW-121 MW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	apor Extraction \		0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Vapo	-113 MW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.2	0.15	0.00	0.00	6.25	0.05	1	0.34	1.16	6.13	
		MW-112 MW-113 MW-120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		MW-74 MV	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		MW-69-WW	00.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	00.0	0.00	0.00	0.00	00.0	0.00	0.00	0.00	0.00	0.00	0.00	
		MW-68 M	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		MW-11				0.00															00.00	
		MW-86	00.0	0.00	0.00	0.00		0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	00.00	
	d monthly	W-85	#VALUE!	#VALUE!	#VALUE!	#VALUE!	0.00	#VALUE!	#VALUE!	0.00	00'0	#VALUE!	#VALUE!	NALUEI								
	be gauge	MW-84 M	0.00 #		0.00 #		0.00		0.00 #	0.00						0.00					0.00 #	
	ells must	MW-83	0.00	0.00	0	0.00					0.00				0.00		0.00		0.00			
	w guidan	1 MW-82	00.0 0	00.0 0		00.0 0					00.00		00.00		00.00			0.00	00.00		00.0	
	dwater Pu	75 MW-8	20 0.0	00.0 00		00.0 00	00.0 00				00.00		0	00 0.37		00.0 00	00.00	00	00 8.47	00.0 00	00	
	Former Groundwater Pumping wells must be gauged monthly	72 MW-7	0.00 -0.20	0.00 0.00	0.00 0.00	0.00 0.00					0.00 0.00				0.00 0.00				0.00 0.00	0.00 0.00	0.00 0.00	
		MW-65A MW-72 MW-75 MW-81 MW-82 MW-83 MW-84 MW-85	0.00 0.0			0.00 0.0											0.00 0.0		0.00 0.0		0.00 0.0	
in feet			0.00 0			0.00 0													0.00		0.00 0	
Product Thickness in fee		MW-58	_						-	_	-			_	_	_	_	_		_		
Product			6/19/2007	7/25/200	8/29/2007	9/20/2007	Arcadis	11/20/200	12/5/2007	1/18/2008	2/20/2008	3/27/2008	4/30/2008	5/29/2008	6/24/2008	7/30/2008	8/27/2008	9/30/2008	10/28/2008	11/25/2008	12/23/2008	



CITY MIDLAND, TX DN 95/GROUP. BW DB: H.CLARDY LD: PIC. JCCPPOLA PM: ALIREED JR TM: ALIREED JR LYR; OW-OFF-TREP: UN: 31-009-0048 GARVCADMIDLANDACTANTONODO010000100001000010000 LAYOUT: 1 SAVED 282003730 AM ACADVER-17.05 (LAS TECH) PACESETUP: - PICTATY.ETABLE MARATHON INDAN BASIN.CTB. PICTTED: 28/2003720 AM BY: CLARDY, HERB GARVCADMIDLANDACTANTONOD01000010000100001000010000 LAYOUT: 1 SAVED 28/2003730 AM ACADVER-17.05 (LAS TECH) PACESETUP: - PICTATY.ETABLE MARATHON INDAN BASIN.CTB. PICATTED: 28/2003720 AM BY: CLARDY, HERB

