

GW - 40

GENERAL CORRESPONDENCE

YEAR(S):

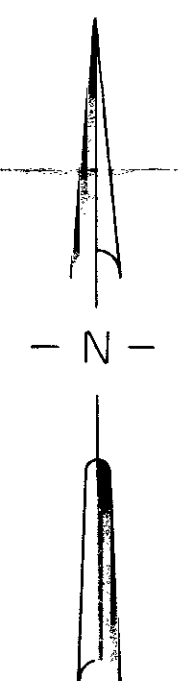
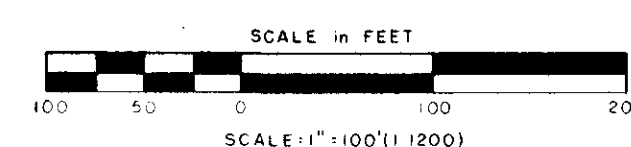
1988

NOTES:

1. This map complies with the National Map Accuracy Standards.
2. Field surveys performed by San Juan Engineering, Farmington, New Mexico.
3. Vertical aerial photography exposed on July 22, 1978 with a Zeiss RMK A 15/23 precision aerial mapping camera, with a calibrated focal length of 152.58 mm.
4. Stereocompilation, final drafting, and photographic reproduction performed by Thomas R. Mann & Associates, Inc., Albuquerque, New Mexico.
5. 500 foot grid, based on a local coordinate system.

LEGEND

- INDEX CONTOUR
- INTERMEDIATE CONTOUR
- DEPRESSION CONTOUR
- SPOT ELEVATION
- HORIZONTAL / VERTICAL CONTROL POINT
- WELL LOCATION AND NUMBER
- EXPLORATORY WELL
- BACKHOE TRENCH
- BACKHOE PIT
- RECOVERY WELL



TOPOGRAPHIC / PHOTOBASE MAP OF THE GIANT REFINERY SAN JUAN COUNTY, NEW MEXICO

SCALE: 1"= 100' (1:200)
CONTOUR INTERVAL: 2'
VERTICAL DATUM: MEAN SEA LEVEL

1978

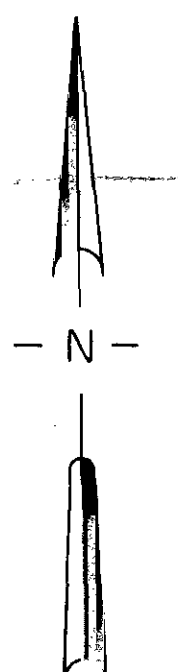
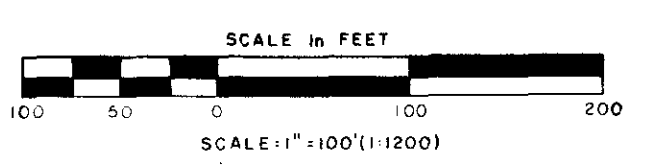
JAN 0 6 1989

	SITE LOCATION MAP GIANT BLOOMFIELD REFINERY	
	CLIENT: GIANT BLOOMFIELD REFINERY	
	DATE: 8-21-86	
	DRAWN BY: KJK	
	CHECKED BY: _____	
REVISED: 1/5/89		
SCALE: 1"= 100'		



- NOTES:
1. This map complies with the National Map Accuracy Standards.
 2. Field surveys performed by San Juan Engineering, Farmington, New Mexico.
 3. Vertical aerial photography exposed on July 22, 1978 with a Zeiss RMK A 15/23 precision aerial mapping camera, with a calibrated focal length of 152.58 mm.
 4. Stereocompilation, final drafting, and photographic reproduction performed by Thomas R. Mann & Associates, Inc., Albuquerque, New Mexico.
 5. 500 foot grid, based on a local coordinate system.

- LEGEND
- INDEX CONTOUR
 - INTERMEDIATE CONTOUR
 - DEPRESSION CONTOUR
 - SPOT ELEVATION
 - HORIZONTAL / VERTICAL CONTROL POINT
 - WELL LOCATION AND NUMBER
 - EXPLORATORY WELL
 - BACKHOE TRENCH
 - BACKHOE PIT
 - RECOVERY WELL



TOPOGRAPHIC / PHOTOBASE MAP
OF THE
GIANT REFINERY
SAN JUAN COUNTY, NEW MEXICO

SCALE: 1" = 100' (1:1200)
CONTOUR INTERVAL: 2'
VERTICAL DATUM: MEAN SEA LEVEL

9/11/89 1978
File Conu JAN 0 6 1989

	SITE LOCATION MAP GIANT BLOOMFIELD REFINERY	
	CLIENT: GIANT BLOOMFIELD REFINERY	
	DATE: 8-21-86	
	DRAWN BY: KJK	
	REVIEWED: 1/6/89	
SCALE: 1" = 100'		

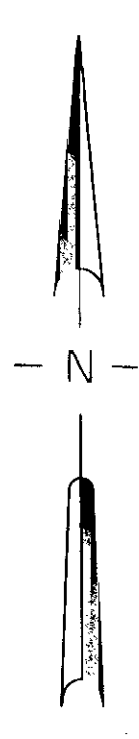
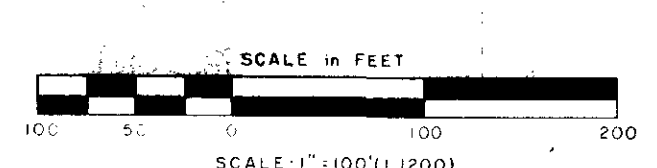




- NOTES:
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 4. Stereocompilation, final drafting, and photographic reproduction performed by Thomas R. Mann & Associates, Inc., Albuquerque, New Mexico.
 5. 500 foot grid, based on a local coordinate system.

- LEGEND
- INDEX CONTOUR
 - INTERMEDIATE CONTOUR
 - DEPRESSION CONTOUR
 - SPOT ELEVATION
 - HORIZONTAL / VERTICAL CONTROL POINT

David Boyer
NM OGD



TOPOGRAPHIC / PHOTOBASE MAP
OF THE
GIANT REFINERY
SAN JUAN COUNTY, NEW MEXICO

SCALE: 1" = 100' (1:1200)
CONTOUR INTERVAL: 2'
VERTICAL DATUM: MEAN SEA LEVEL

1978

	SITE LOCATION MAP	
	GIANT BLOOMFIELD REFINERY	
	CLIENT: GIANT BLOOMFIELD REFINERY	
	DATE: 8-21-86	
	DRAWN BY: K.J.K.	
CHECKED BY:		
REVIEWED:	SCALE: 1" = 100'	
PLATE I		

- NOTES:
1. This map complies with the National Map Accuracy Standards.
 2. Field surveys performed by San Juan Engineering, Farmington, New Mexico.
 3. Vertical aerial photography exposed on July 22, 1978 with a Zeiss RKK A 15/23 precision aerial mapping camera, with a calibrated focal length of 152.58 mm.
 4. Stereocompilation, final drafting, and photographic reproduction performed by Thomas R. Mann & Associates, Inc., Albuquerque, New Mexico.
 5. 500 foot grid, based on a local-coordinate system.

- LEGEND
- INDEX CONTOUR
 - INTERMEDIATE CONTOUR
 - DEPRESSION CONTOUR
 - SPOT ELEVATION
 - HORIZONTAL / VERTICAL CONTROL POINT
 - BORING
 - 2 INCH MONITOR WELL
 - 6 INCH MONITOR WELL
 - WELL AND BORING
 - BACKHOE PIT
 - BACKHOE TRENCH



TOPOGRAPHIC / PHOTOBASE MAP
OF THE
GIANT REFINERY
SAN JUAN COUNTY, NEW MEXICO

SCALE: 1" = 100' (1:1200)
CONTOUR INTERVAL: 2'
VERTICAL DATUM: MEAN SEA LEVEL
1978



GEOSCIENCE CONSULTANTS, LTD.

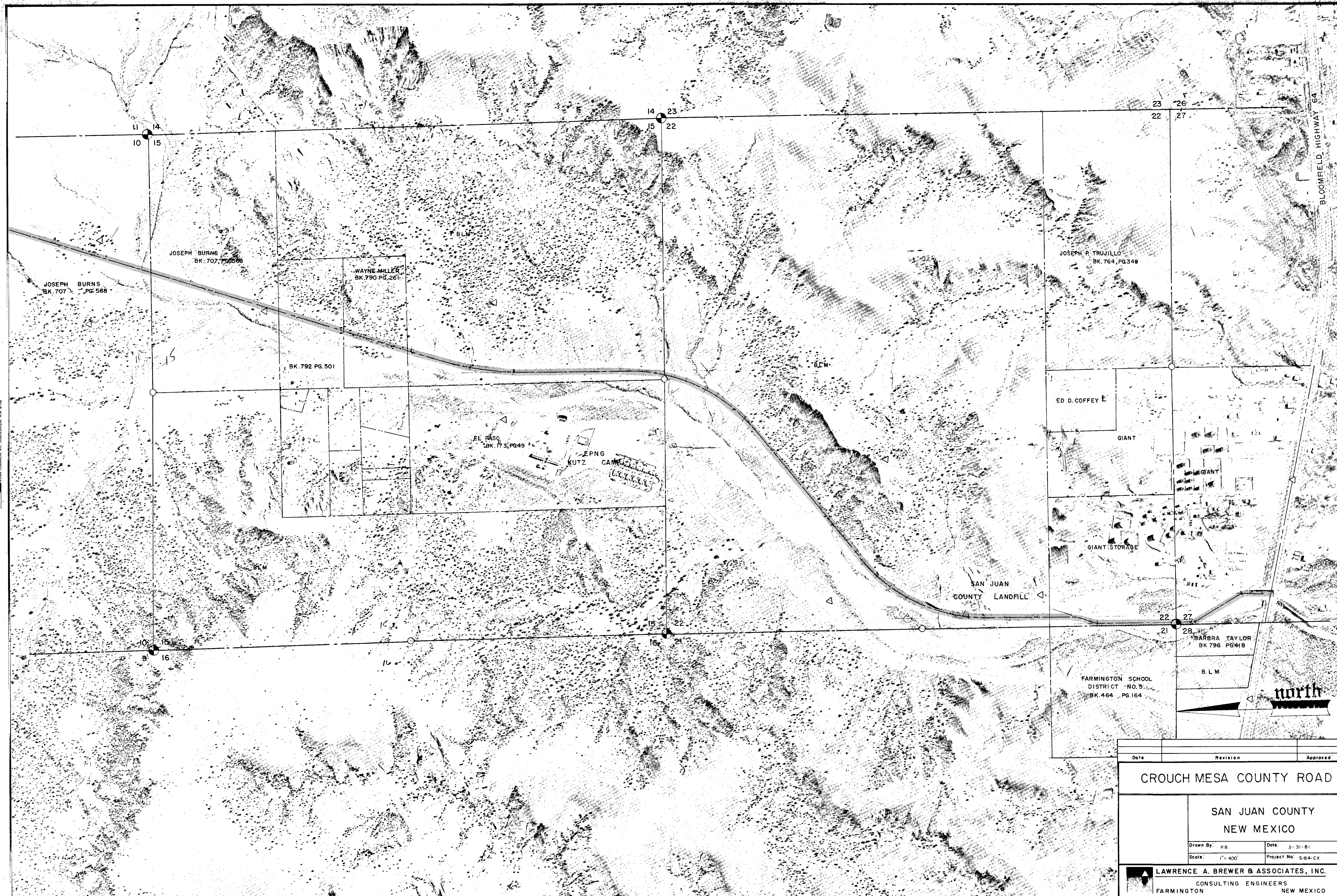
PLATE 1

SITE LOCATION MAP



FROM MAY 86 REPORT
JUNE 26, 1986

PHOTOGRAPHY &
PHOTO INTERPRETATION BY
KODOL & POULS ENGINEERING
1333A COMMUNE N.E., ALBUQUERQUE, N.M. 87106



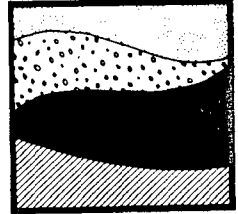
Date	Revision	Approved
CROUCH MESA COUNTY ROAD		
SAN JUAN COUNTY NEW MEXICO		
Drawn By: P.B.	Date: 3-31-81	
Scale: 1" = 400'	Project No: S-84-CX	
LAWRENCE A. BREWER & ASSOCIATES, INC. CONSULTING ENGINEERS FARMINGTON NEW MEXICO		

Geoscience Consultants, Ltd.

500 Copper Avenue NW, Suite 200
Albuquerque, New Mexico 87102
(505) 842-0001 FAX (505) 842-0595

1109 Spring Street, Suite 706
Silver Spring, Maryland 20910
(301) 587-2088

GCL



September 11, 1987

Mr. David Boyer
New Mexico Oil Conservation Division
State Land Office Building
Santa Fe, New Mexico

HAND DELIVERED

RE: Correction to Cross Section (Plate 2) of April, 1987 Submission

Dear Dave:

After my conversation with you last night, I performed another review of the above-referenced plate. I found numerous discrepancies between the lithologic and well completion logs in Appendix B of the report and Plate 2. The revised cross sections correct errors associated with the location of well screens and mislabeling of lithologic units, and eliminates section G-G'.

There is no excuse for the existence of these errors, however correction of the cross sections does not result in a reinterpretation of the geology, hydrology, water chemistry or engineering design for the product containment system. Screen locations were misplaced by 5 feet on some wells. Mislabeling of lithologic units included silty sand labeled as clayey sand, clayey sand labeled as silty sand, shale labeled as silty sand and several other transpositions. I believe that you will agree that significant interpretational errors do not exist.

I apologize for the lack of consistency between Plate 2 and Appendix B. If portions of the text are unclear or you discover other discrepancies, please call me and I will remedy the situation in the same expedient manner in which this cross section was corrected.

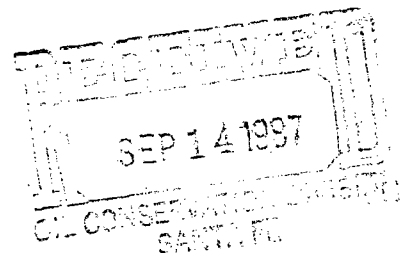
Randall T. Hicks, CPGS

Randy
Vice-President
Technical Services

Enclosures

RTH/lrs/M&A/BOYER001.LTR

cc: Mark Sheridan, Montgomery and Andrews
Carlos Guerra, Giant Industries, Phoenix
Bob McClenahan, Giant Refining, Gallup

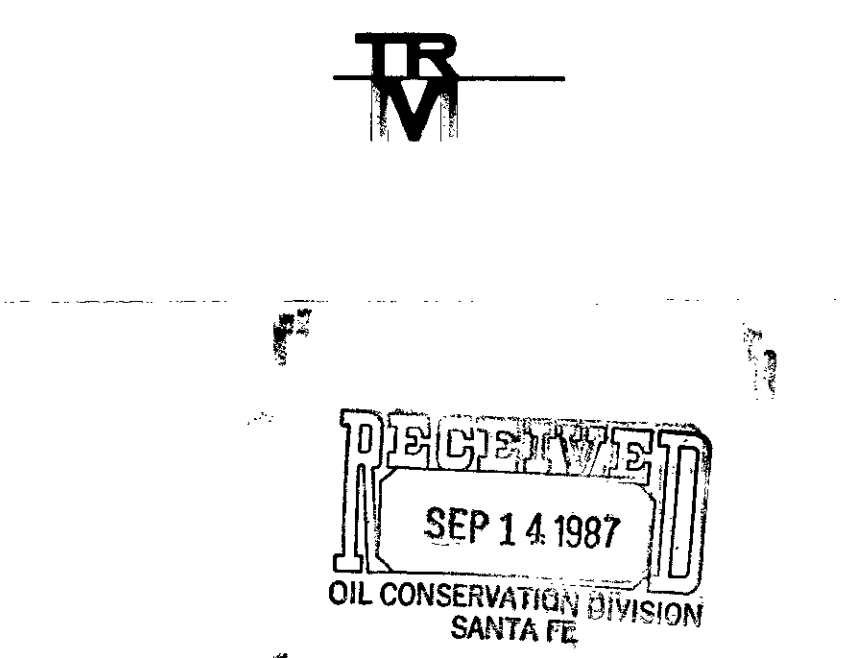
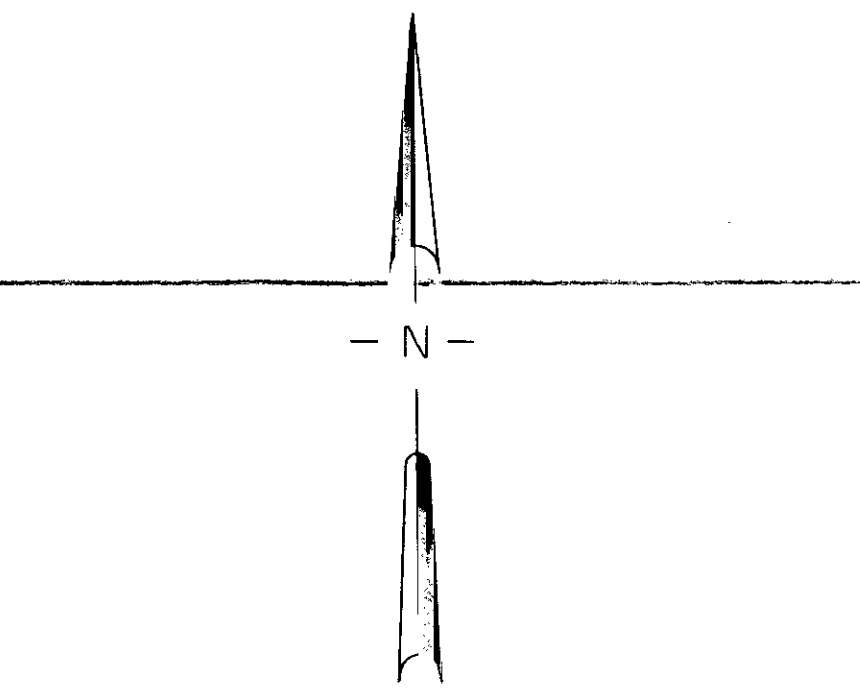
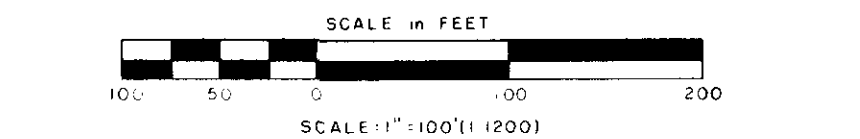




- NOTES:
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 4. Stereocompilation, final drafting, and photographic reproduction performed by Thomas R. Mann & Associates, Inc., Albuquerque, New Mexico.
 5. 500 foot grid, based on a local coordinate system.

LEGEND

INDEX CONTOUR
INTERMEDIATE CONTOUR
DEPRESSION CONTOUR
SPOT ELEVATION
HORIZONTAL / VERTICAL CONTROL POINT



**TOPOGRAPHIC / PHOTOBASE MAP
OF THE
GIANT REFINERY
SAN JUAN COUNTY, NEW MEXICO**

SCALE: 1" = 100' (1:1200)
CONTOUR INTERVAL: 2'
VERTICAL DATUM: MEAN SEA LEVEL
1978

GCL

SITE LOCATION MAP
GIANT BLOOMFIELD REFINERY

CLIENT: GIANT BLOOMFIELD REFINERY
DATE: 8-21-86
DRAWN BY: KJK
CHECKED BY:
REVIEWED BY:
SCALE: 1" = 100'
PLATE 1

(Revised from June '87 Report)
87 SET WORK COPY



LEGEND

- RW - RECOVERY WELL
- GBR - MONITOR WELL

0 100' 200' 300'
SCALE

GIANT BLOOMFIELD REFINERY SAN JUAN COUNTY, NEW MEXICO

RECEIVED
OCT 31 1989
OIL CONSERVATION DIVISION
SANTA FE

NOTES:

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LEGEND

- INDEX CONTOUR
INTERMEDIATE CONTOUR
DEPRESSION CONTOUR
SPOT ELEVATION
HORIZONTAL / VERTICAL CONTROL POINT
WELL LOCATION AND NUMBER
EXPLORATORY WELL
BACKHOE TRENCH
BACKHOE PIT
RECOVERY WELL

SCALE 1" = 100' (1:1200)
SCALE 1" = 100' (1:1200)



RECEIVED

MAR 2 1988

ENVIRONMENTAL DIVISION

TOPOGRAPHIC / PHOTOBASE MAP
OF THE
GIANT REFINERY
SAN JUAN COUNTY, NEW MEXICO

SCALE: 1" = 100' (1:1200)
CONTOUR INTERVAL: 2'
VERTICAL DATUM: MEAN SEA LEVEL

1978

FEB 26 1988

	SITE LOCATION MAP GIANT BLOOMFIELD REFINERY	
	CLIENT: GIANT BLOOMFIELD REFINERY	
	DATE: 8-21-86	
	DRAWN BY: KJK	
	CHECKED BY: [Signature]	
REVISED: 2/9/88		
SCALE: 1" = 100'		
PLATE 1		

ocb work copy



LEGEND

- RW - RECOVERY WELL
- GBR - MONITOR WELL

0 100' 200' 300'
SCALE

GIANT BLOOMFIELD REFINERY
SAN JUAN COUNTY, NEW MEXICO

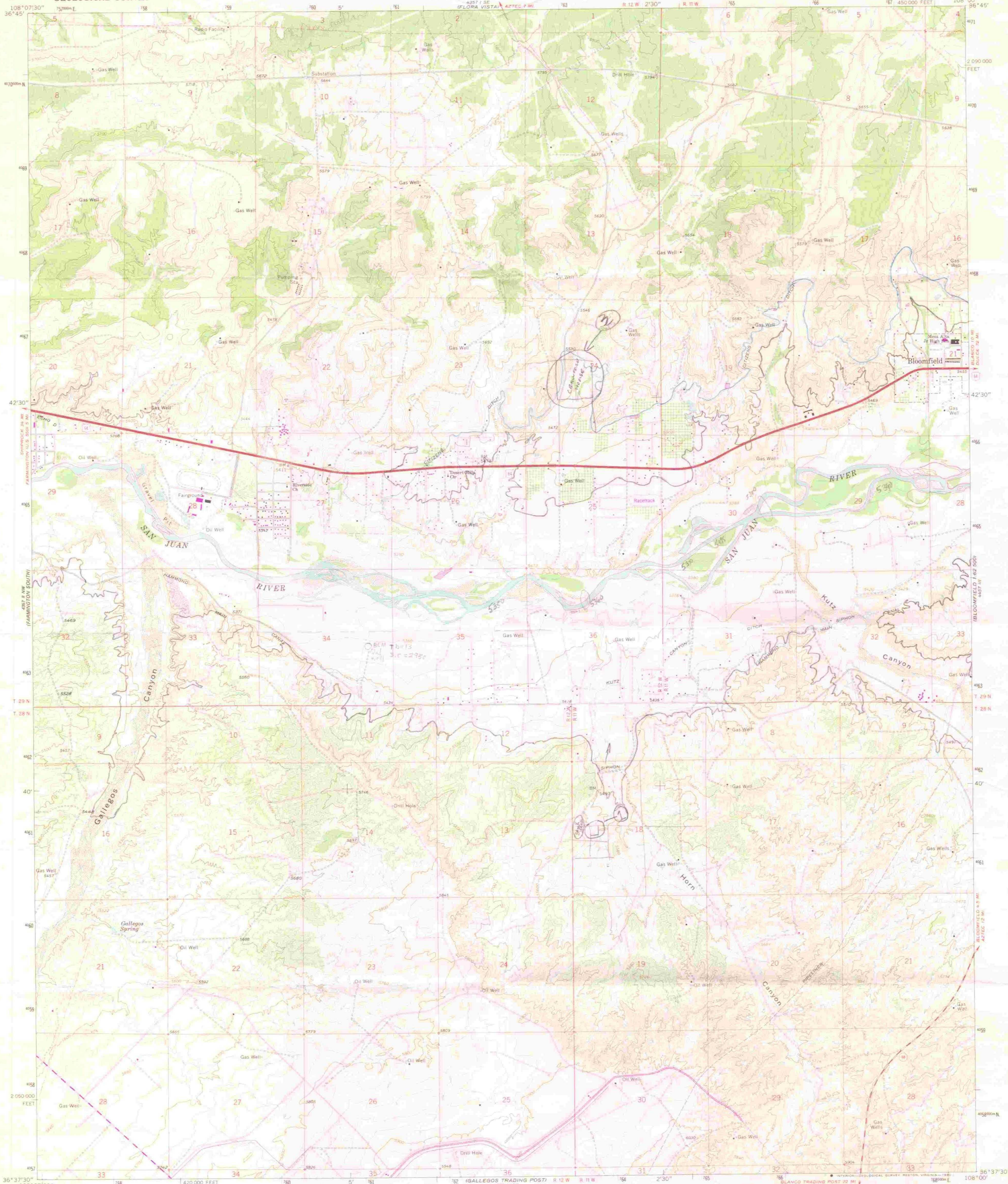
RECEIVED
OCT 31 1989
OIL CONSERVATION DIVISION
SANTA FE

WORK COPY

GROUNDWATER
TECHNOLOGY, INC.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

HORN CANYON QUADRANGLE
NEW MEXICO—SAN JUAN CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)



Mapped, edited, and published by the Geological Survey
Control by USGS and NOS/NOAA, and U. S. Bureau of Reclamation
Topography by photogrammetric methods from aerial
photographs taken 1964 and by planimetric surveys of the
Bureau of Reclamation 1965. Field checked by USGS 1965
Polyconic projection. 1927 North American datum
10,000-foot grid based on New Mexico coordinate system,
west zone
1000 meter Universal Transverse Mercator grid ticks,
zone 12, shown in blue
Fine red dashed lines indicate selected fence lines
To place on the predicted North American Datum 1983
move the projection lines 2 meters north and
56 meters east as shown by dashed corner ticks

Revisions shown in purple compiled from aerial photographs
taken 1978 and other source data. This information not
field checked. Map edited 1979

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

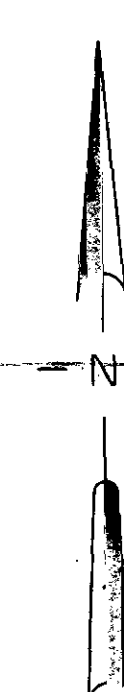
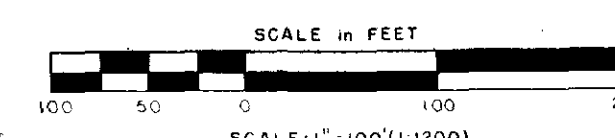
ROAD CLASSIFICATION
Heavy-duty ——— Light-duty ———
Medium-duty ——— Unimproved dirt ———
State Route ———
U. S. Route ———
HORN CANYON, N. MEX.
N3637.5—W10800/7.5
1965
PHOTOREVISED 1979
DMA 4357 II NE—SERIES V881

NOTES:

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LEGEND

- INDEX CONTOUR
INTERMEDIATE CONTOUR
DEPRESSION CONTOUR
SPOT ELEVATION
HORIZONTAL / VERTICAL CONTROL POINT
WELL LOCATION AND NUMBER
EXPLORATORY WELL
BACKHOE TRENCH
BACKHOE PIT
RECOVERY WELL



TOPOGRAPHIC / PHOTOBASE MAP
OF THE
GIANT REFINERY
SAN JUAN COUNTY, NEW MEXICO

SCALE: 1" = 100' (1:1200)
CONTOUR INTERVAL: 2'
VERTICAL DATUM: MEAN SEA LEVEL

1978 RECEIVED
FEB 26 1988
MAR - 2 1988
OIL CONSERVATION DIVISION
SANTA FE

	SITE LOCATION MAP GIANT BLOOMFIELD REFINERY	
	CLIENT: GIANT BLOOMFIELD REFINERY	
	DATE: 8-21-86	
	DRAWN BY: KJK	
	CHECKED BY: _____	
REVISION: 2/9/88		
SCALE: 1" = 100'		
PLATE 1		



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LEGEND

INDEX CONTOUR

INTERMEDIATE CONTOUR

DEPRESSION CONTOUR

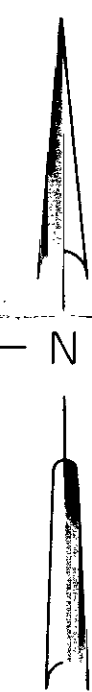
SPOT ELEVATION

HORIZONTAL / VERTICAL CONTROL POINT

SCALE IN FEET

100 50 0 50 100 200

SCALE 1" = 100' (1:1200)



SEP 14 1987

OIL CONSERVATION DIVISION

SANTA FE

TOPOGRAPHIC / PHOTOBASE MAP
OF THE
GIANT REFINERY
SAN JUAN COUNTY, NEW MEXICO

SCALE: 1" = 100' (1:1200)
CONTOUR INTERVAL: 2'
VERTICAL DATUM: MEAN SEA LEVEL

1978

GCL

LOCATION MAP FOR HYDROGEOLOGIC
CROSS SECTIONS

CLIENT: GIANT BLOOMFIELD REFINERY

DATE: 8-21-86

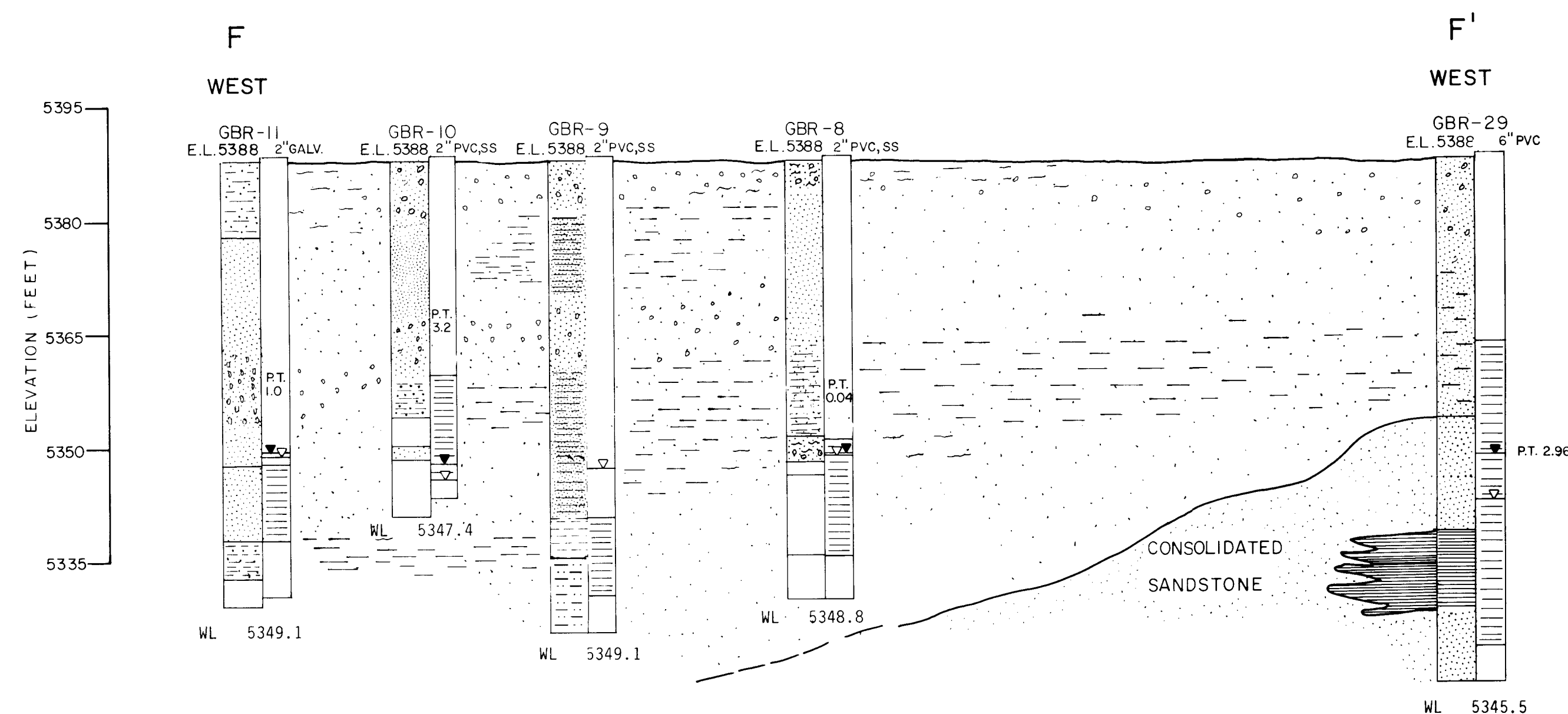
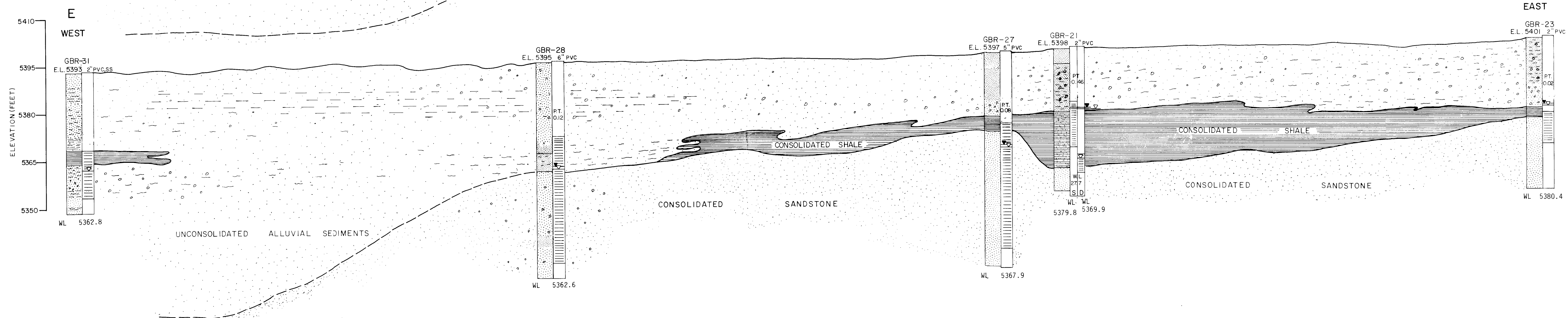
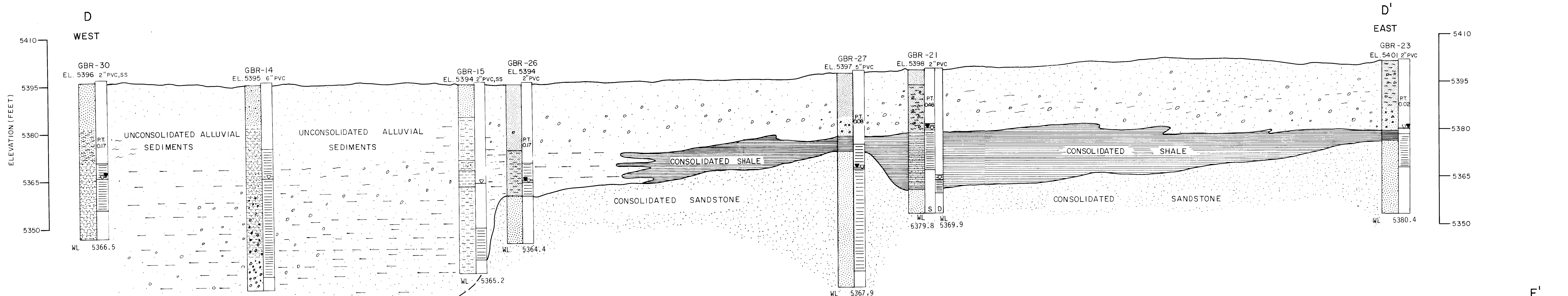
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CHECKED BY:

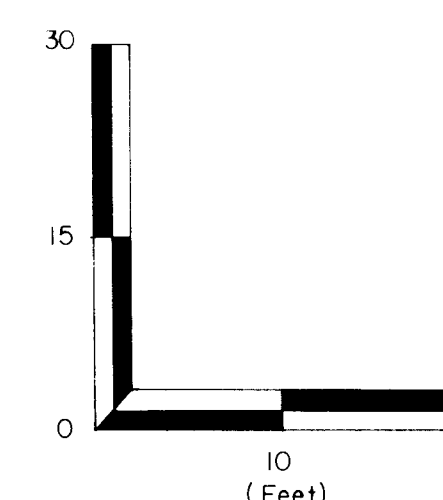
REVISED:

SCALE: 1" = 100'

PLATE 3

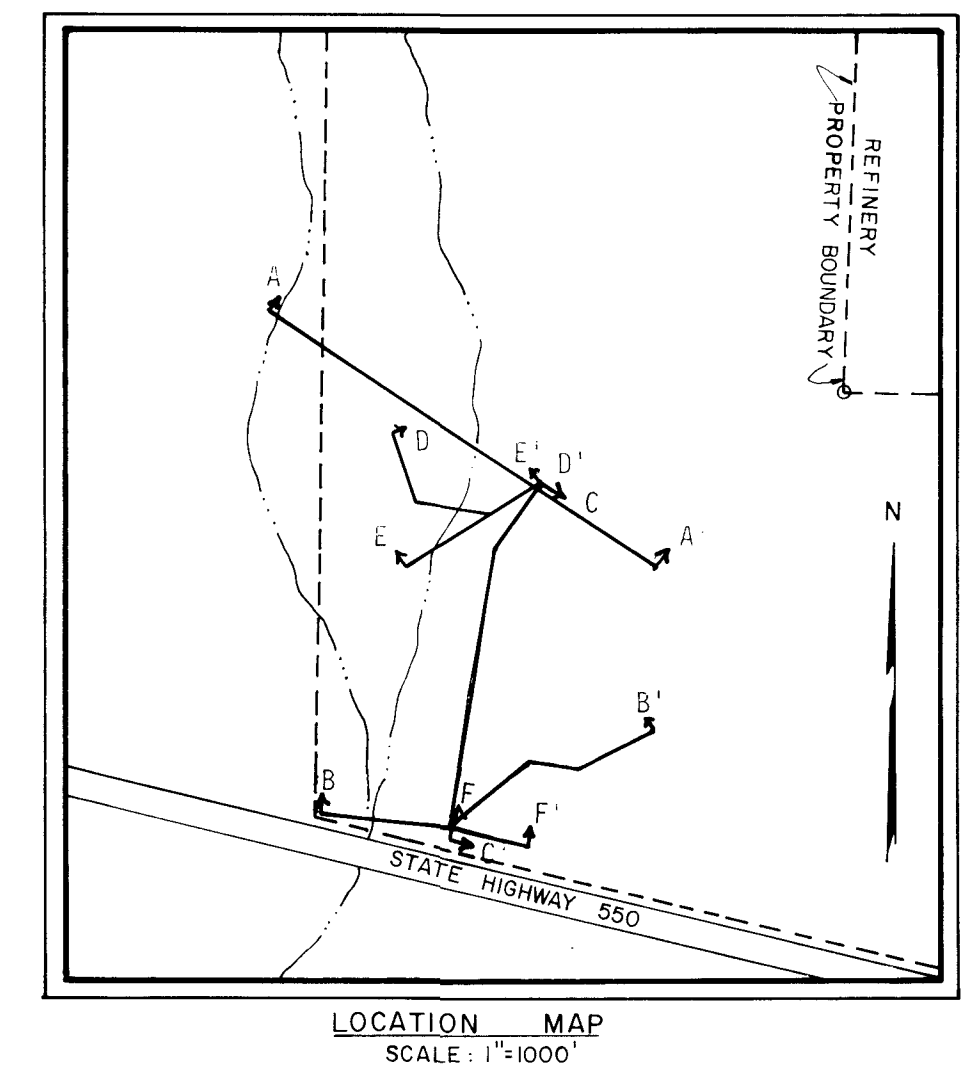
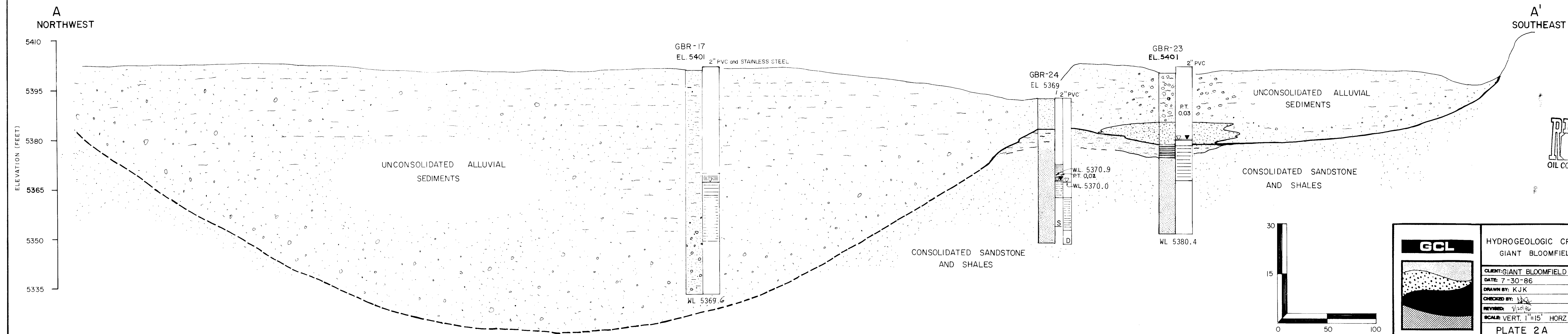
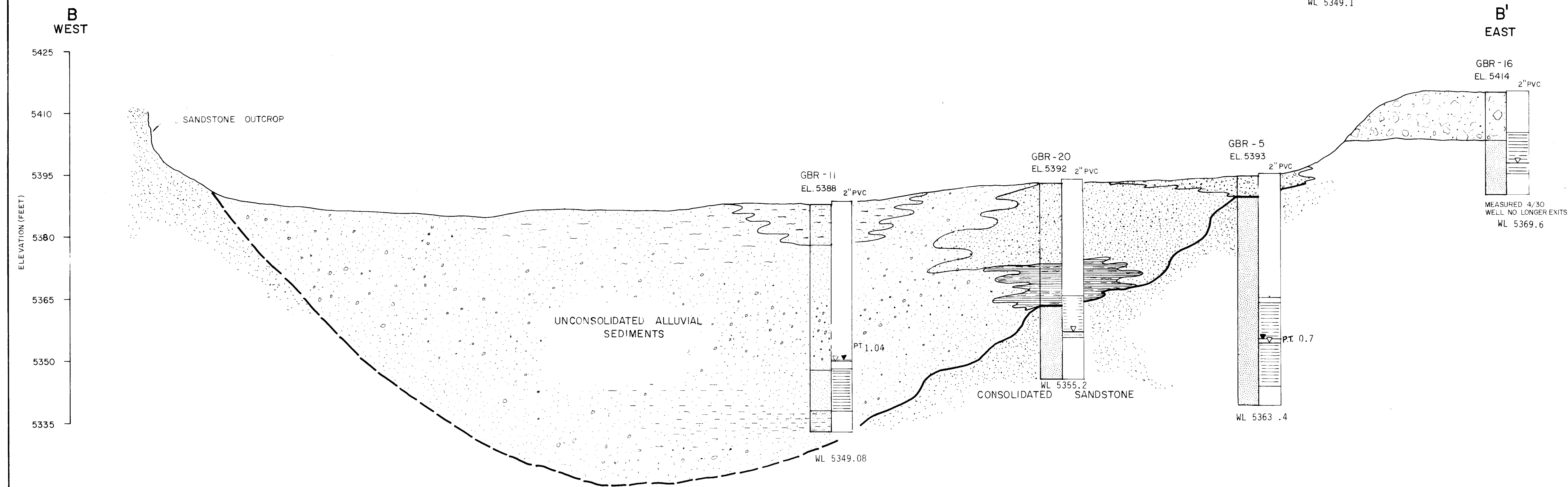
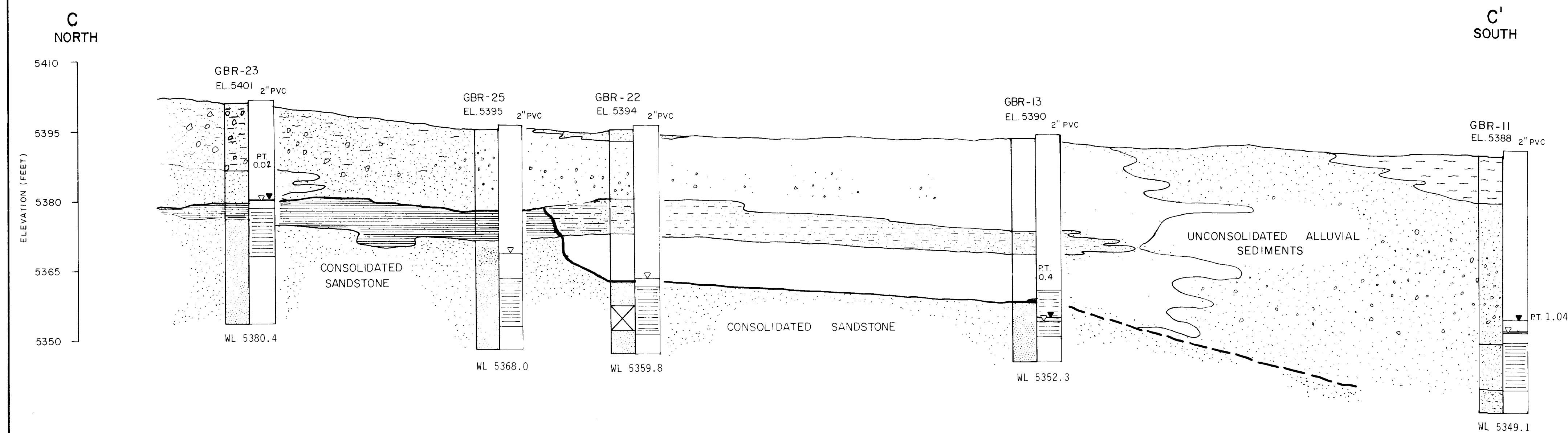


NOTE: 1. WATER LEVELS AND PRODUCT THICKNESSES MEASURED 11/86



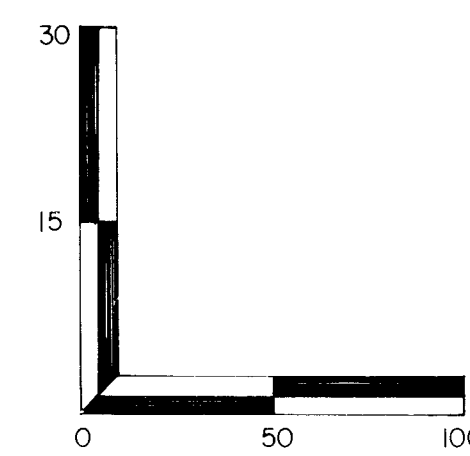
SEP 14 1987
OIL CONSERVATION DIVISION
SANTA FE

	HYDROGEOLOGIC CROSS SECTIONS (CONT'D.) GIANT BLOOMFIELD REFINERY	
	CLIENT:	DATE: 3-2-87
	DRAWN BY: KJK, EO	CHECKED BY:
	REVIS: SCALE: VERT. 1"=15' HORZ. 1"=10'	
	PLATE 2B	



LEGEND	
	WATER LEVEL
	WL. WATER LEVEL IN FT. FROM TOP OF GROUND - MEASURED 11/86
	PRODUCT LEVEL
	PT. PRODUCT THICKNESS IN FT. MEASURED 11/86
	WELL CASING
	SCREEN
	S SHALLOW COMPLETION
	D DEEP COMPLETION
	CLAY
	SAND
	CLAYEY SAND
	SAND AND GRAVEL
	SILTY SAND
	SANDSTONE
	COBBLES AND BOULDERS
	SHALE
	SILTY SHALE
	SANDY SHALE
	NO RETURNS
	SILT

RECEIVED
SEP 14 1987
OIL CONSERVATION DIVISION



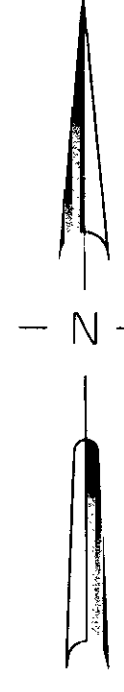
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	CLIENT: GIANT BLOOMFIELD REFINERY	
	DATE: 7-30-86	
	DRAWN BY: KJK	
	CHECKED BY: [Signature]	
REVIEWED: [Signature]		
SCALE: VERT. 1"=15' HORZ. 1"=50'		
PLATE 2A		

- NOTES:
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LEGEND

INDEX CONTOUR
INTERMEDIATE CONTOUR
DEPRESSION CONTOUR
SPOT ELEVATION
HORIZONTAL / VERTICAL CONTROL POINT

SCALE IN FEET
0 50 100 200
SCALE 1" = 100' (1:1200)



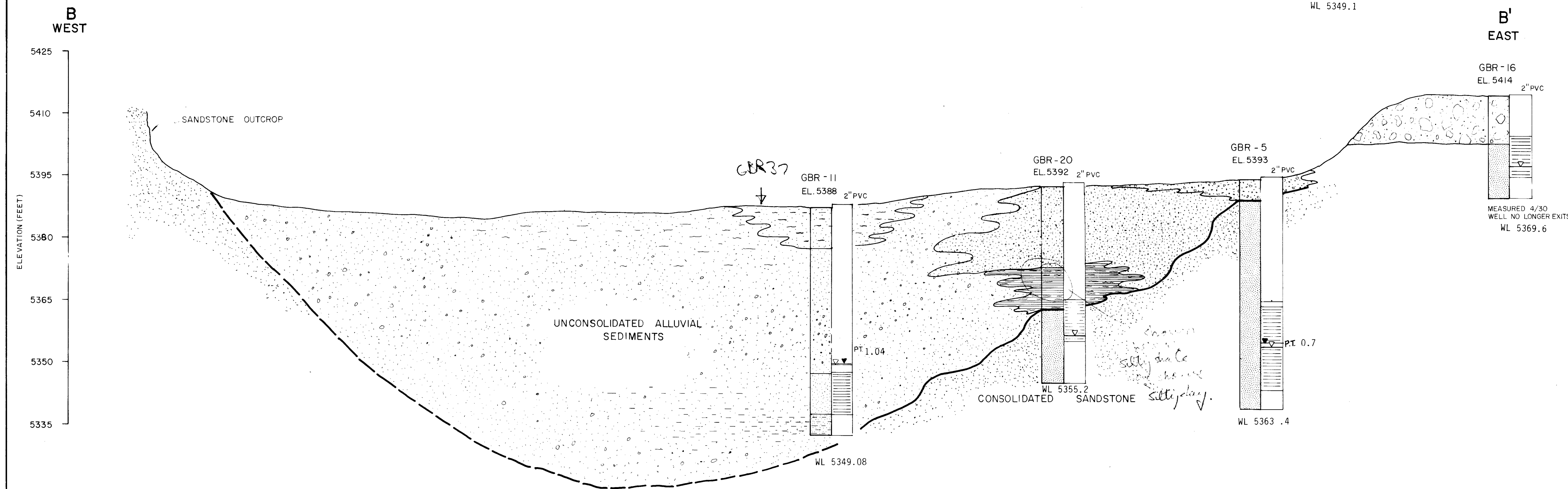
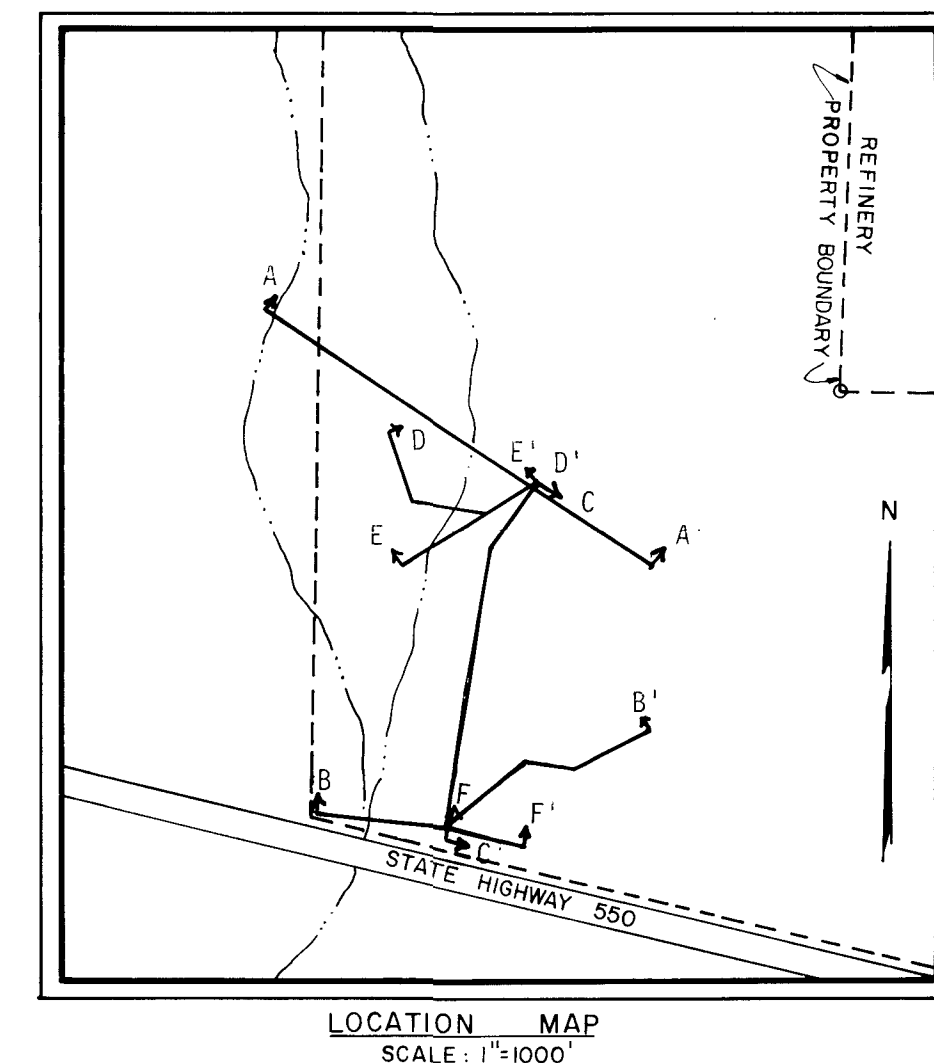
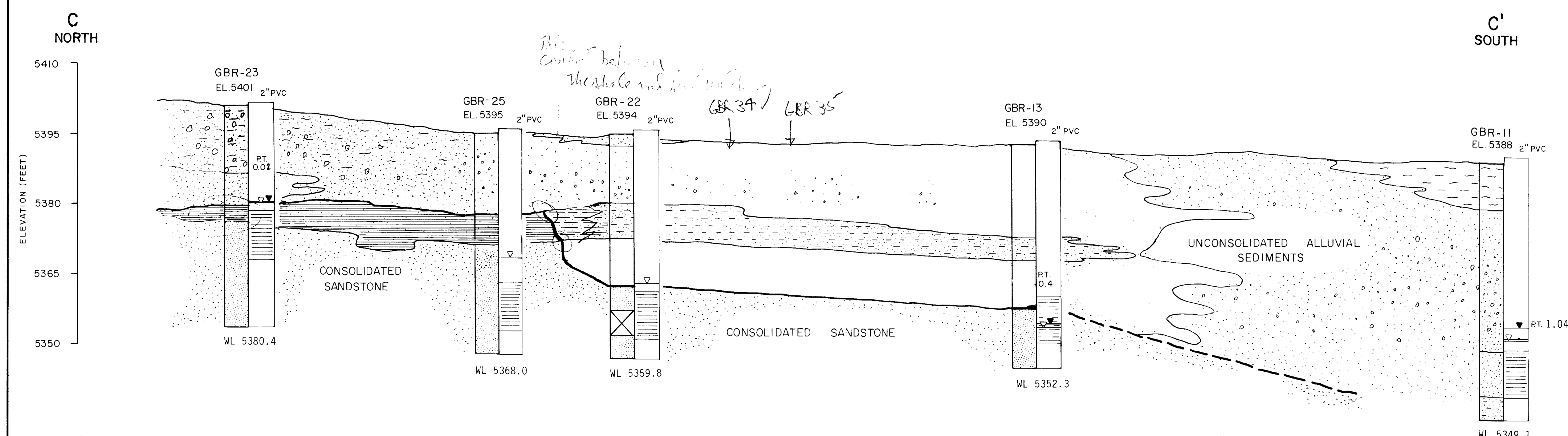
SEP 14 1987
OIL CONSERVATION DIVISION
SANTA FE

TOPOGRAPHIC / PHOTOBASE MAP OF THE GIANT REFINERY SAN JUAN COUNTY, NEW MEXICO

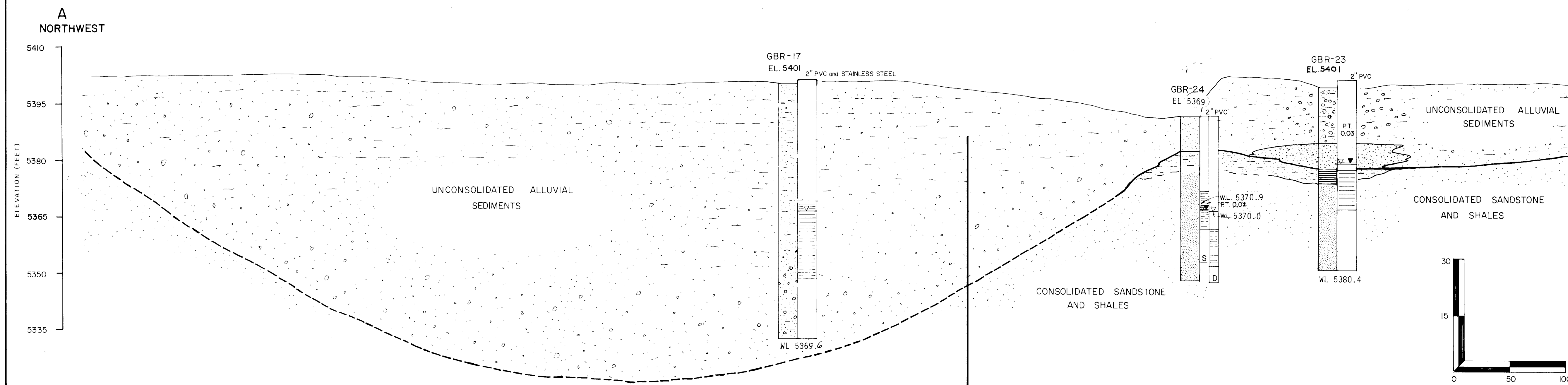
SCALE: 1" = 100' (1:1200)
CONTOUR INTERVAL: 2'
VERTICAL DATUM: MEAN SEA LEVEL

1978

	SITE LOCATION MAP GIANT BLOOMFIELD REFINERY	
	CLIENT: GIANT BLOOMFIELD REFINERY	
	DATE: 8-21-86	
	DRAWN BY: KJK	
	CHECKED BY: _____	
REVISION: _____		
SCALE: 1" = 100'		
PLATE 1		

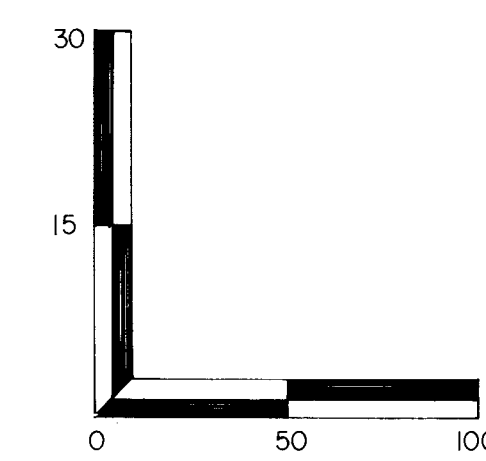


- LEGEND**
- ▽ WATER LEVEL
 - WL. WATER LEVEL IN FT. FROM TOP OF GROUND - MEASURED 11/86
 - ▼ PRODUCT LEVEL
 - PT. PRODUCT THICKNESS IN FT. MEASURED 11/86
 - WELL CASING
 - ▨ SCREEN
 - S SHALLOW COMPLETION
 - D DEEP COMPLETION
 - ▨ CLAY
 - SAND
 - ▨ CLAYEY SAND
 - ▨ SAND AND GRAVEL
 - ▨ SILTY SAND
 - ▨ SANDSTONE
 - ▨ COBBLES AND BOULDERS
 - ▨ SHALE
 - ▨ SILTY SHALE
 - ▨ SANDY SHALE
 - ⊗ NO RETURNS
 - ▨ SILT



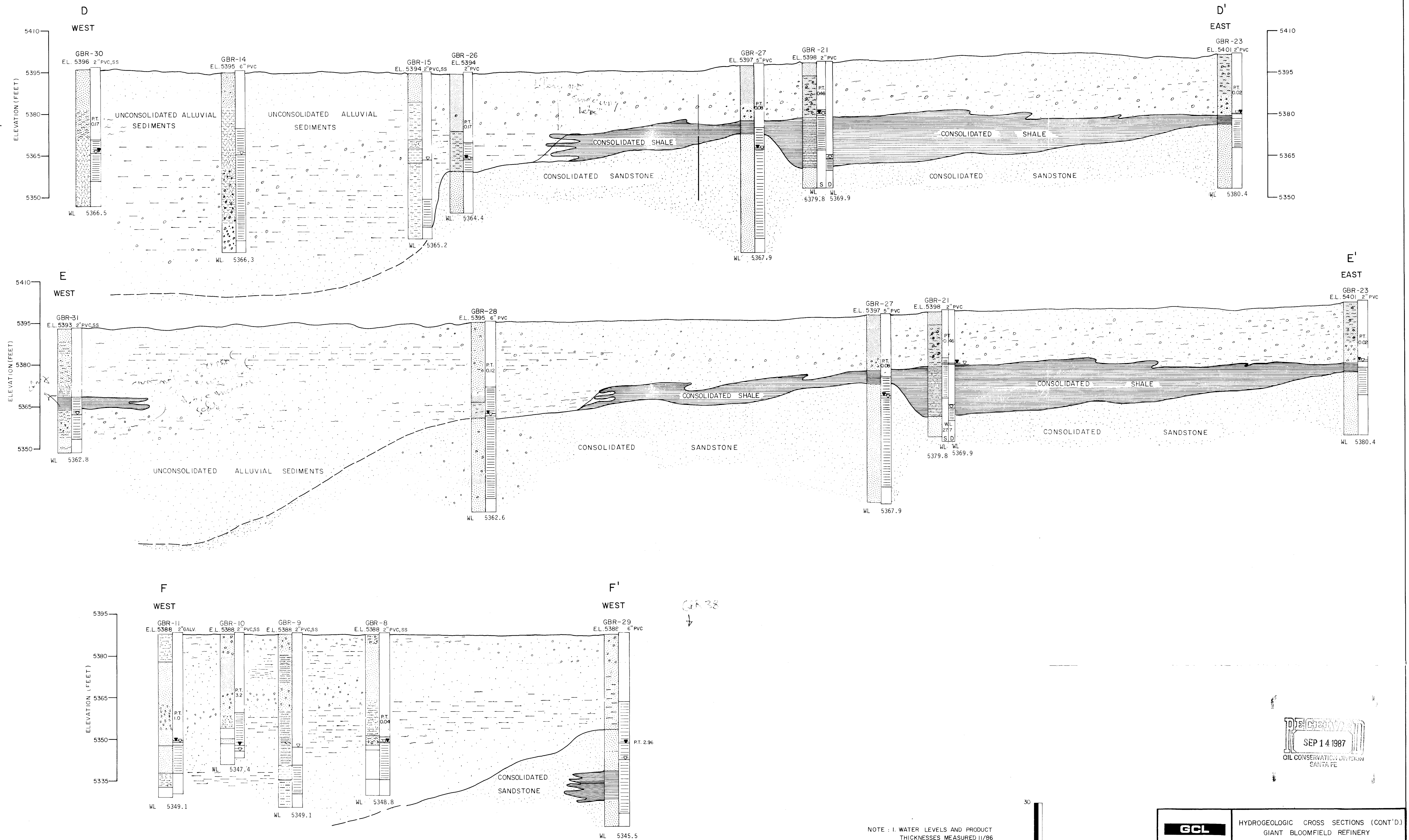
A' SOUTHEAST

DECEMBER 14 1987
OIL CONSERVATION DIVISION
SANTA FE

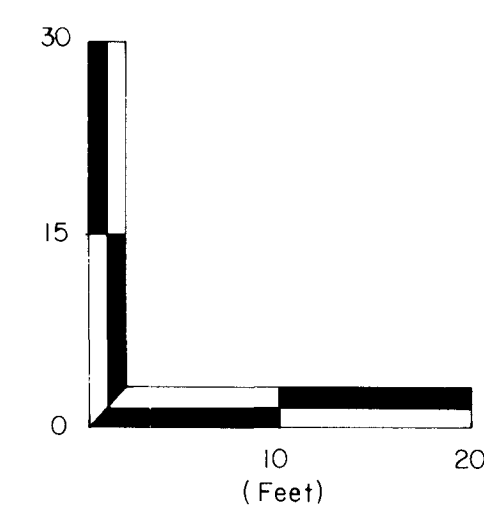


	HYDROGEOLOGIC CROSS SECTIONS GIANT BLOOMFIELD REFINERY	
	CLIENT: GIANT BLOOMFIELD REFINERY	
	DATE: 7-30-86	
	DRAWN BY: KJK	
	CHECKED BY: [Signature]	
REVIEWED: [Signature]		
SCALE: VERT. 1"=15' HORZ. 1"=50'		
PLATE 2A		

137500 work copy
1 Revised from final 8/2



SEP 14 1987
OIL CONSERVATION DIVISION
SANTA FE



	HYDROGEOLOGIC CROSS SECTIONS (CONT'D.) GIANT BLOOMFIELD REFINERY	
	CLIENT:	DATE: 3-2-87
	DRAWN BY: KJK, EO	CHECKED BY:
	REVIEWED:	SCALE: VERT. 1" = 15' HORZ. 1" = 10'
	PLATE 2B	

INSTITUTE OF PROFESSIONAL ENGINEERS
677
SANTA FE, N.M. 87505

87 Sept Work Order
(Revised from June 87)

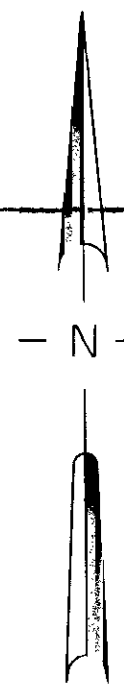


- NOTES:
1. This map complies with the National Map Accuracy Standards.
 2. Field surveys performed by San Juan Engineering, Farmington, New Mexico.
 3. Vertical aerial photography exposed on July 22, 1978 with a Zeiss RMK A 15/23 precision aerial mapping camera, with a calibrated focal length of 152.58 mm.
 4. Stereocompilation, final drafting, and photographic reproduction performed by Thomas R. Mann & Associates, Inc., Albuquerque, New Mexico.
 5. 500 foot grid, based on a local coordinate system.

LEGEND

INDEX CONTOUR
INTERMEDIATE CONTOUR
DEPRESSION CONTOUR
SPOT ELEVATION
HORIZONTAL / VERTICAL CONTROL POINT

SCALE - FEET
100 50 0 50 100
SCALE 1" = 100' (1:1200)



RECEIVED
SEP 14 1987
OIL CONSERVATION DIVISION
SANTA FE

TOPOGRAPHIC / PHOTOBASE MAP
OF THE
GIANT REFINERY
SAN JUAN COUNTY, NEW MEXICO

SCALE: 1" = 100' (1:1200)
CONTOUR INTERVAL: 2'
VERTICAL DATUM: MEAN SEA LEVEL

1978

	LOCATION MAP FOR HYDROGEOLOGIC CROSS SECTIONS	
	CLIENT: GIANT BLOOMFIELD REFINERY	
	DATE: 8-21-86	
	DRAWN BY: KJK	
	CHECKED BY:	
SCALE: 1" = 100'		
PLATE 3		

(Revised from June 1977)
1978 SET WORK COPY



- NOTES:
1. This map complies with the National Map Accuracy Standards.
 2. Field surveys performed by San Juan Engineering, Farmington, New Mexico.
 3. Vertical aerial photography exposed on July 22, 1978 with a Zeiss RMK A 15/23 precision aerial mapping camera, with a calibrated focal length of 152.58 mm.
 4. Stereocompilation, final drafting, and photographic reproduction performed by Thomas R. Mann & Associates, Inc., Albuquerque, New Mexico.
 5. 500 foot grid, based on a local coordinate system.

LEGEND

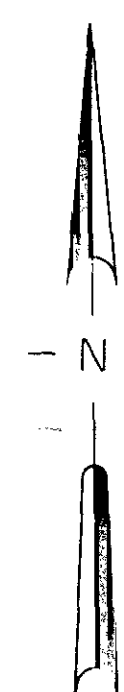
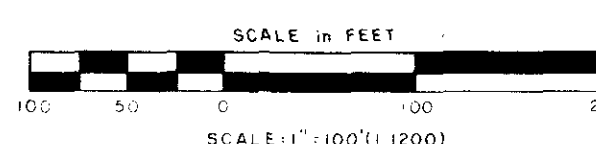
INDEX CONTOUR

INTERMEDIATE CONTOUR

DEPRESSION CONTOUR

SPOT ELEVATION

HORIZONTAL / VERTICAL CONTROL POINT



TOPOGRAPHIC / PHOTOBASE MAP
OF THE
GIANT REFINERY
SAN JUAN COUNTY, NEW MEXICO

SCALE: 1" = 100' (1:1200)
CONTOUR INTERVAL: 2'
VERTICAL DATUM: MEAN SEA LEVEL

1978

 	SITE LOCATION MAP GIANT BLOOMFIELD REFINERY	
	CLIENT: GIANT BLOOMFIELD REFINERY	
	DATE: 8-21-86	
	DRAWN BY: KJK	
	CHECKED BY:	
REVISED:		
SCALE: 1" = 100'		
PLATE I		

