

HIP - 64

**GENERAL
CORRESPONDENCE**

YEAR(S):
1995-1990

WILLIAMS FIELD SERVICES
ONE OF THE WILLIAMS COMPANIES

WILLIAMS FIELD SERVICES
SANTA FE, NM

P.O. Box 58900
Salt Lake City, UT 84158-0900
(801) 584-7033
FAX: (801) 584-6483

105 SE - 105 NW 8 52

Milagro. Hyd

September 12, 1995

Mr. Chris Eustice
Energy Minerals & Natural Resources Dept.
Oil Conservation Division
310 Old Santa Fe Trail
P. O. Box 2288
Santa Fe, NM 87504

Re: Hydrostatic Test and Discharge Plan

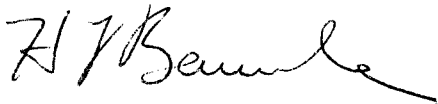
Dear Mr. Eustice:

Pursuant to our recent telephone conversation, Williams Field Services is proposing to conduct a hydrostatic test of approximately 19,780.5 feet of new 16" OD pipe with capacity of 195,433 gallons. The test section will be from the Transwestern Blanco Hub to the La Cosa Compressor Station site. The test will be scheduled for late October to early November, 1995.

The enclosed Hydrostatic Test and Discharge Plan is being submitted for your review and approval. The plan provides specific information regarding the test and the disposal of the test water.

If any additional information is needed, please call me at (801) 584-6999.

Sincerely,



H. Lee Bauerle
Environmental Specialist

xc: Larry Lauderback WFS/MZP

Williams Field Services
Hydrostatic Test & Discharge Plan

**Torre Alta Gathering
Kutz to Blanco Hub
3.75 Miles of 16" Pipe**

TEST DESCRIPTION

Williams Field Services will perform a hydrostatic, leak/strength proof test of 3.75 miles of new 16" O.D. x .219 wt pipe at 90% SMYS (1643) for total of four(4) hours. The test section will begin at Transwestern Blanco Hub at engineering station 0+00 located in the southwest quarter of northwest quarter of the northwest quarter of section 13, township 29 north, range 11 west (see drawing 8407.1-x-1). The test section will end at La Cosa Compressor station at engineering station 197+80, located in the northwest quarter of section 34, township 29 north, range 11 west (see drawing 8407.1-x-4). The entire test section is within San Juan County, New Mexico. The test section will consist of 19,780.5 feet of new 16" OD pipe with a capacity of approximately 195,433 gallons.

SOURCE AND ANALYSIS OF WATER

The source of water will be the City of Bloomfield Domestic water supply.

POINT OF DISCHARGE OF TEST WATER

After the test is completed the water will be transferred through approximately 1800 feet of temporary surface line to an existing lined earthen evaporation pond on Williams Field Services property. The pond is located in the southeast quarter of the northwest quarter of section 13, township 29 north, range 11-west. The pit area is 200' x 225' x 9' deep with a 12 mil polyethylene pit liner in place. The area is secured by a 4' hog wire fence with one (1) strand of barbed wire. See the attached map labeled "Source and Discharge Locations".

METHOD AND LOCATION FOR COLLECTION OF FLUIDS AND SOLIDS

Kutz to Blanco Hub is constructed of newly manufactured 16" pipe without any accumulation of rust or scale. The line will be pigged prior to being filled with test water to remove any dirt or debris that may have entered the line during construction. The dirt and debris will be hauled to an approved landfill. The test water will be handled as described above. (see attached copy)

DEPTH OF GROUNDWATER

The depth of groundwater is estimated to be 50 to 80 feet at the location of the discharge pit. Subsurface seepage will be prevented with the 12 mil polyethylene liner.

DISPOSAL OF FLUIDS AND SOLIDS/PIT CLOSURE

The pond will remain in service until all water has evaporated and the pond will receive no other waste material. After the water evaporates, the pond and liner will be backfilled in place.

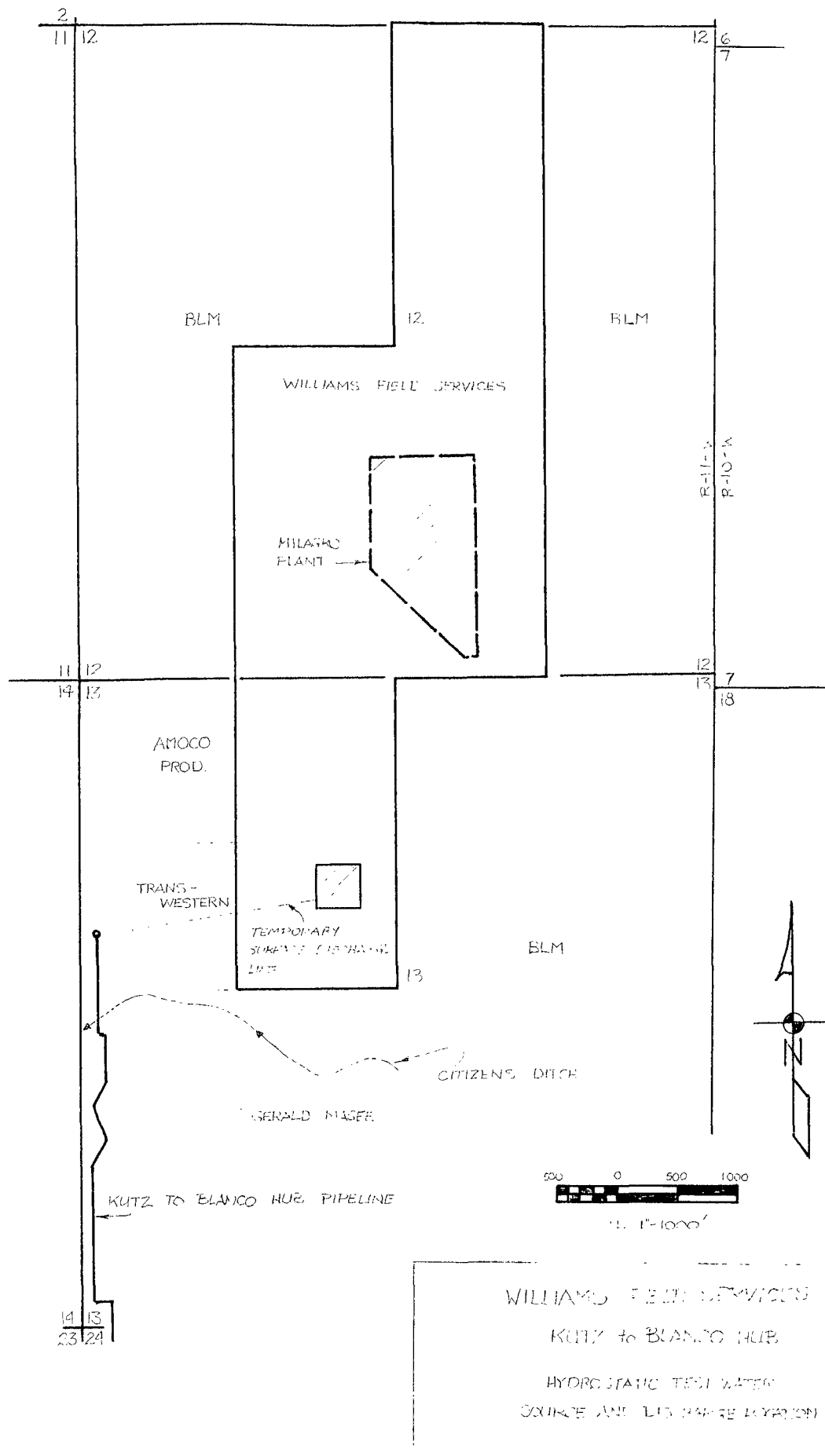
IDENTIFICATION OF LANDOWNERS

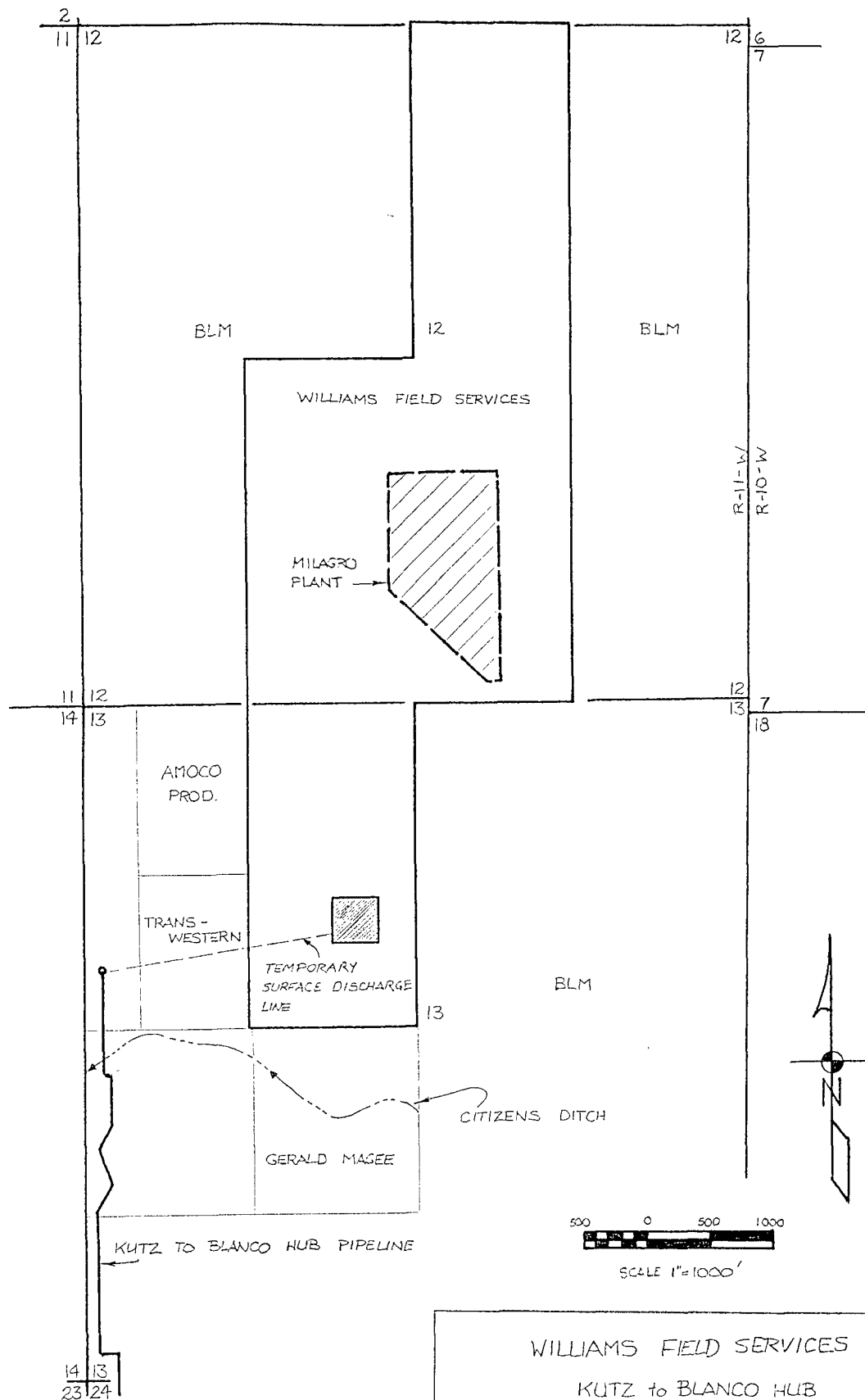
The disposal pond is located on Williams Field Service property. Land owners adjacent to Williams Field Services property and the Citizens Ditch are identified on the map labeled "Source and Discharge Locations".

LOCATION MAPS ATTACHED

"Source and Discharge Locations" - This drawing shows the location of the water source and evaporation pit and shows the location of Williams Field Service property and surrounding land owners.

Drawing No's 8407.1-x-1 to 8407.1-x-4 Kutz to Blanco Hub Line. These drawings provide detailed map of the pipeline to be tested.



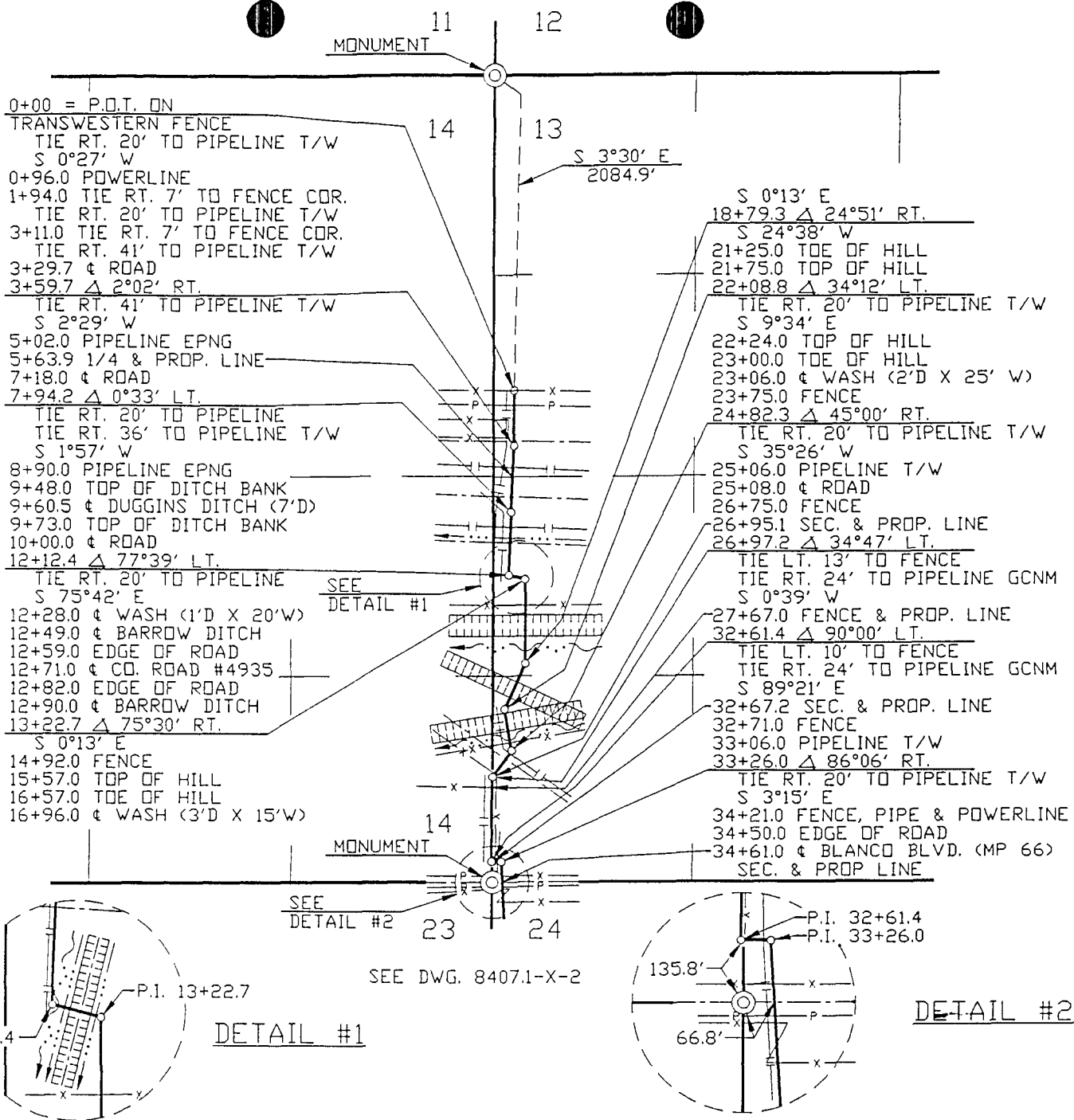


WILLIAMS FIELD SERVICES

KUTZ to BLANCO HUB

HYDROSTATIC TEST WATER
SOURCE AND DISCHARGE LOCATION

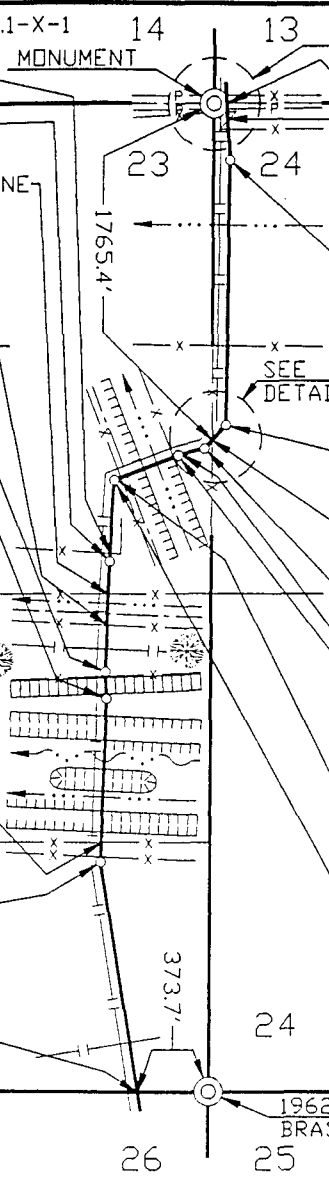
NOTE: BEARINGS ARE BASED ON ASTRONOMIC DATA.



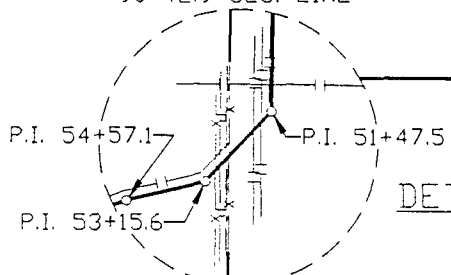
GERALD MAGEE, TRUSTEE		32+67.2 TO 34+61.0	193.8/11.746
BERNIE STRUNK		27+67.0 TO 32+67.2	500.2/30.315
MITCHELL CONST CD.		26+95.1 TO 27+67.0	71.9/4.358
GERALD MAGEE, TRUSTEE		5+63.9 TO 26+95.1	2131.2/129.164
TRANSWESTERN PIPELINE CO.		0+00 TO 5+63.9	563.9/34.176
OWNER		STATION	FEET/RODS
WILLIAMS GAS PROCESSING - BLANCO			
ONE OF THE WILLIAMS COMPANIES			
KUTZ TO BLANCO HUB LINE			
SEC. 13 & 14, T-29-N, R-11-W, NMPM			
SAN JUAN COUNTY, NEW MEXICO			
2	2/1/95	CJF	REVISED PER OWNERSHIP (ROW)
1	1/18/95	CJF	ISSUED FOR REVIEW
NO	DATE	BY	REVISION
MJC	DATE	1/18/95	CHKD BY: FAD
APP	SCALE: 1"=1000'	W.D. NO: 70058	DWG NO: 8407.1-X-1

NOTE: BEARINGS ARE BASED ON ASTRONOMIC DATA.

SEE DWG. 8407.1-X-1
 S 3°09' W
 62+06.0 FENCE & PROP. LINE
 TIE LT. 28.5' TO FENCE COR.
 62+48.5 Δ 1°02' LT.
 TIE RT. TO PIPELINE GCNM
 S 2°08' W
 64+10.0 R/W FENCE, 1/4 & PROP. LINE
 64+31.0 Δ BARROW DITCH
 64+46.0 EDGE OF ROAD
 64+69.0 Δ HWY. 64 (MP 66.15)
 64+95.0 EDGE OF ROAD
 65+29.0 R/W FENCE & PROP. LINE
 67+04.0 PIPELINE EPNG
 68+21.5 Δ 4°37' LT.
 TIE RT. TO PIPELINE GCNM
 S 2°30' E
 68+46.0 FENCE
 68+57.0 TOP OF HIGH BANK
 & ENTER TREES
 68+81.0 TOE OF HIGH BANK
 69+64.4 Δ 4°37' RT.
 TIE RT. 40' TO PIPELINE GCNM
 S 2°07' W
 70+84.0 TOP OF LOW BANK
 70+99.0 TOE OF LOW BANK
 & EDGE OF WATER
 71+82.0 Δ SAN JUAN RIVER
 72+65.0 TOE OF ISLAND
 73+19.5 Δ ISLAND
 73+74.0 TOE OF ISLAND
 74+09.5 Δ SECONDARY CHANNEL
 74+45.0 TOE OF HIGH BANK
 & EDGE OF WATER
 74+55.0 TOP OF HIGH BANK
 74+72.0 FENCE, 1/64 & PROP. LINE
 75+34.7 TIE RT. 50' TO
 PIPELINE GCNM
 77+80.0 FENCE
 78+23.1 Δ 11°22' LT.
 TIE RT. 20' TO PIPELINE GCNM
 S 9°15' E
 88+69.0 PIPELINE
 90+42.9 SEC. LINE



SEE DWG. 8407.0-1
 FOR DETAIL #2
 S 3°15' E
 34+61.0 Δ BLANCO BLVD. (MP 66)
 SEC. & PROP. LINE
 34+72.0 EDGE OF ROAD
 34+94.0 POWERLINE
 34+95.0 FENCE
 35+49.0 FENCE & PROP. LINE
 35+92.0 FENCE
 37+54.4 Δ 3°59' RT.
 TIE RT. 15' TO PIPELINE T/W
 S 0°44' W
 40+94.0 Δ IRRIG. DITCH
 47+79.0 FENCE & 1/16 LINE
 51+00.0 PIPELINE EPNG
 51+47.5 Δ 42°06' RT.
 TIE RT. 15' TO PIPELINE T/W
 S 42°50' W
 51+73.0 PIPELINE MAPCO
 51+92.0 PIPELINE MAPCO
 52+42.0 FENCE, SEC. & PROP. LINE
 52+83.0 Δ DEER TRAIL LN.
 53+05.0 POWERLINE
 53+06.0 FENCE
 53+15.6 Δ 33°25' RT.
 TIE RT. 31' TO PIPELINE GCNM
 S 76°15' W
 54+23.3 PROP. LINE
 54+57.1 Δ 7°36' LT.
 TIE RT. 15' TO PIPELINE GCNM
 S 68°40' W
 54+67.0 FENCE, & TOP OF BANK
 55+38.0 Δ IRRIG. DITCH (4'W X 8'D)
 57+63.0 TOP OF BANK
 57+69.0 EDGE OF ROAD
 57+87.0 Δ PALAMIND ST.
 57+92.3 PROP. LINE
 58+04.0 EDGE OF ROAD
 58+11.0 ABAND. FENCE
 TIE RT. 15' TO PIPELINE GCNM
 58+20.1 Δ 65°31' LT.
 TIE RT. 15' TO PIPELINE GCNM
 S 3°09' W



DETAIL #4

SEE DWG. 8407.1-X-3

R/W NO: 02563

KARL G. ASHCROFT JR., ET AL	74+72.0 TO 90+42.9	1570.9/95.206
ANN C. SULLIVAN	65+29.0 TO 74+72.0	943.0/57.152
STATE HWY. 64	64+10.0 TO 65+29.0	119.0/7.212
KENDALL ASSOCIATES	62+06.0 TO 64+10.0	204.0/12.364
ORION C. ALLEN	57+92.3 TO 62+06.0	413.7/25.073
KENDALL ASSOCIATES	54+23.3 TO 57+92.3	369.0/22.364
NORMAN L. WAGGONER	52+42.0 TO 54+23.3	181.3/10.988
SANDY & LOLA SCOTT, TRUSTEE	35+49.0 TO 52+42.0	1693.0/102.606
SANDY SCOTT, TRUSTEES	34+61.0 TO 35+49.0	88.0/5.333
OWNER	STATION	FEET/RODS

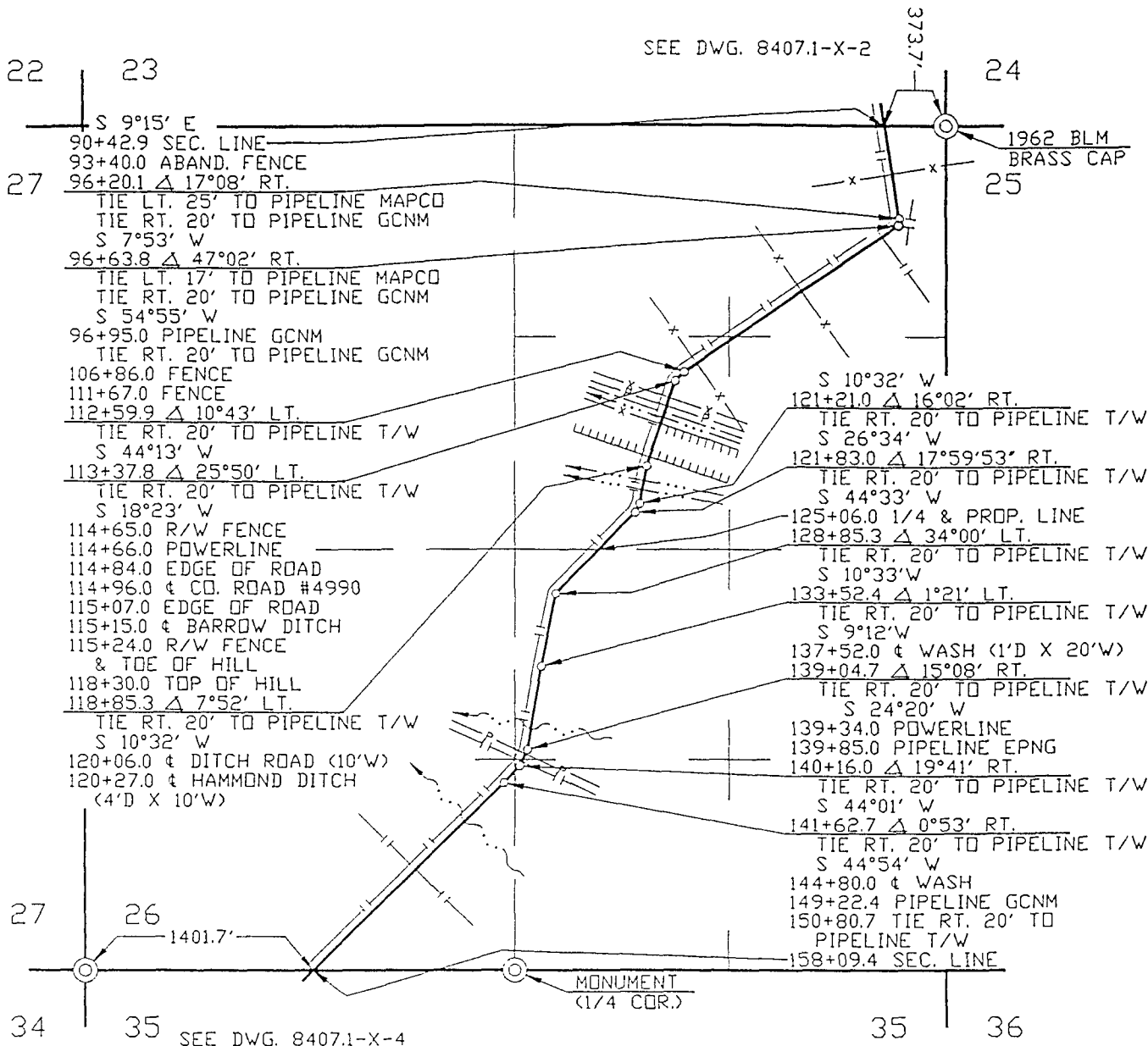
3	8/7/95	CJF	REVISED PER OWNERSHIP	MJC
2	2/1/95	CJF	REVISED PER SECTION SIZE	MJC
1	1/18/95	CJF	ISSUED FOR REVIEW	MJC
NO	DATE	BY	REVISION	APP

WILLIAMS GAS PROCESSING - BLANCO
ONE OF THE WILLIAMS COMPANIES

TORRE ALTA GATHERING SYSTEM
KUTZ TO BLANCO HUB LINE
 SEC. 23 & 24, T-29-N, R-11-W, NMPM
 SAN JUAN COUNTY, NEW MEXICO

DRAWN BY: CJF DATE: 1/18/95 CHKD BY: FAD APPR: KWB
 SCALE: 1"=1000' W.D. NO: 70058 DWG NO: 8407.1-X-2

NOTE: BEARINGS ARE BASED ON ASTRONOMIC DATA.



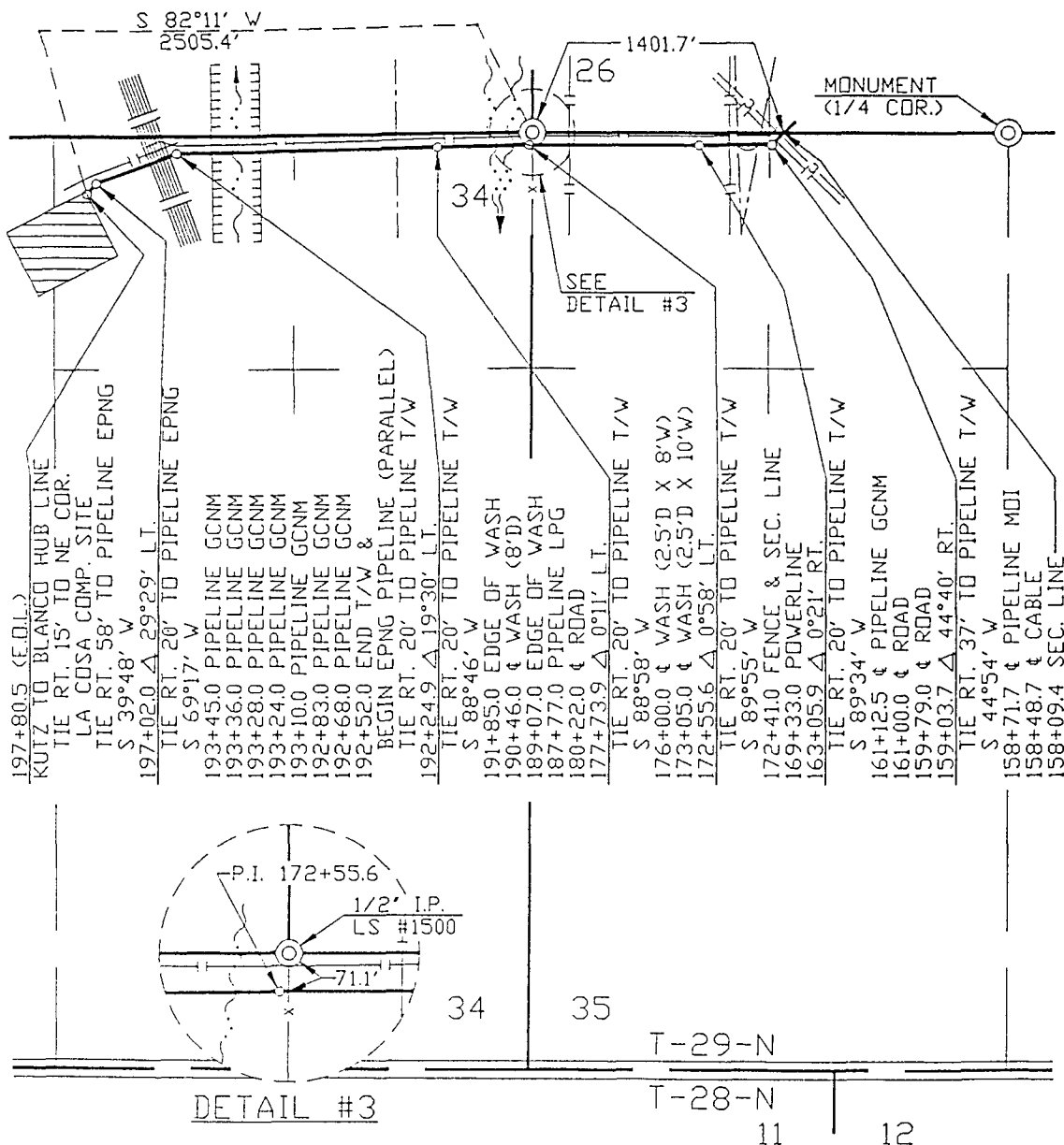
R/W NO: 02563

BUREAU OF LAND MANAGEMENT				125+06.0 TO 158+09.4				3303.4/200.206							
KARL G. ASHCROFT JR., ET AL				90+42.9 TO 125+06.0				3463.1/209.885							
OWNER				STATION				FEET/RODS							
					WILLIAMS GAS PROCESSING • BLANCO  ONE OF THE WILLIAMS COMPANIES KUTZ TO BLANCO HUB LINE SEC. 26, T-29-N, R-11-W, NMPM SAN JUAN COUNTY, NEW MEXICO										
1	1/18/95	CJF	ISSUED FOR REVIEW				my	DRAWN BY: CJF		DATE: 1/18/95		CHKD BY: FAD		APPR: 	
NO	DATE	BY	REVISION				APP	SCALE: 1"=1000'		W.D. NO: 70058		DWG NO:		8407.1-X-3	

NOTE: BEARINGS ARE BASED ON ASTRONOMIC DATA.

SEE DWG. 8407.1-X-3

LA COSA
COMP. SITE



R/W NO: 02563

BUREAU OF LAND MANAGEMENT
OWNER

158+09.4 TO 197+80.5
STATION

3971.1/240.673
FEET/RODS

WILLIAMS GAS PROCESSING • BLANCO
ONE OF THE WILLIAMS COMPANIES

KUTZ TO BLANCO HUB LINE
SEC. 34 & 35, T-29-N, R-11-W, NMPM
SAN JUAN COUNTY, NEW MEXICO

1	1/18/95	CJF	ISSUED FOR REVIEW	ME	DRAWN BY: CJF	DATE: 1/18/95	CHKD BY: FAD	APPR: KJF
NO	DATE	BY	REVISION	APP	SCALE: 1"=1000'	W.D. NO: 70058	DWG NO: 8407.1-X-4	

WILLIAMS FIELD SERVICES COMPANY
ONE OF THE WILLIAMS COMPANIES

P.O. BOX 58900
SALT LAKE CITY, UTAH 84158-0900
801-583-8800
FAX: (801) 584-6483

September 9, 1992

Mr. Roger Anderson
New Mexico Energy, Mineral and
Natural Resources Department
Oil Conservation Division
State Office Building
310 Old Santa Fe Trail
P.O. Box 2088
Santa Fe, New Mexico 87504

RE: Hydrostatic Test and Discharge Plan

Dear Mr. Anderson:

Pursuant to recent telephone conversations with Bill Olson of your staff, I am enclosing for your approval a "Hydrostatic Test and Discharge Plan" for an 11.32 mile section of Williams Field Service's 30" Trunk "A" Loop. The test is scheduled for October 8, 1992.

If any additional information is needed, please call me at (801) 584-6999.

Sincerely,



H. Lee Bauerle
Environmental Services

HLB/pm

0497

**WILLIAMS FIELD SERVICES
Hydrostatic Test and Discharge Plan**

**Manzanares Gathering System
Trunk "A" Loop
11.32 miles of 30" Pipe**

TEST DESCRIPTION

Williams Field Services will perform a hydrostatic, leak/strength proof test of 11.32 miles of new 30" O.D. x .375 WT Grade X-65 pipe at 1.25 x system design (1100 MAOP) for a total of four (4) hours. The test section will begin at the Horse Canyon CDP in the Southeast quarter of the Northeast quarter of Section 27, Township 30 North, Range 9 West, Engineering Station 24 + 48.7 (see drawing #798.1-x-149). The test section will end at Milagro plant in the Southwest quarter of the Southeast quarter of Section 12, Township 29 North, Range 11 West, Engineering Station 687 + 56.7 (see drawing #798.1-x-137). The entire test section is within San Juan County, New Mexico. The test section will consist of 59,793.3 feet of new 30" O.D. pipe with a capacity of approximately 2.087 million gallons.

SOURCE AND ANALYSIS OF TEST WATER

The water required for the hydrostatic test will be purchased from the Citizens Ditch Company. The ditch originates at a diversion of the San Juan River and runs 21 miles downstream serving the drinking water and agricultural irrigation needs of the Bloomfield and Blanco communities. The test water will be removed from the ditch approximately 1 3/4 miles downstream of the Bloomfield City Reservoir in the Northwest quarter of the Southwest quarter of Section 13, Township 29 North, Range 11 West.

Sundale Associates Engineering and Testing sampled the water in Citizens Ditch on September 4, 1992. A copy of this analysis is attached.

POINT OF DISCHARGE OF TEST WATER

After the test is completed, the water will be transferred through a temporary surface pipeline approximately 1500 feet to an existing fenced and lined earthen evaporation pond on Williams Field Services property. The pond is located in the Southeast quarter of the Northwest quarter of Section 13, Township 29 North, Range 11 West. The pit area is 200' x 225' x 9' deep with a 12 mil polyethylene pit liner in place. The area is secured by a 4' hog wire fence with one (1) strand of barbed wire. See the attached map labeled "Source and Discharge Locations".

METHOD AND LOCATION FOR COLLECTION OF FLUIDS AND SOLIDS

Trunk "A" loop is constructed of newly manufactured 30" pipe without any accumulation of rust or scale. The line will be pigged prior to being filled with test water to remove any dirt or debris that may have entered the line during construction. The dirt and debris will be hauled to an approved landfill. The test water will be handled as described above.

DEPTH OF GROUNDWATER

The depth of groundwater is estimated to be 50 to 80 feet at the location of the discharge pit. Subsurface seepage will be prevented with the 12 mil polyethylene

DISPOSAL OF FLUIDS AND SOLIDS/PIT CLOSURE

The pond will remain in service until all water has evaporated and the pond will receive no other waste material. After the water evaporates, the pond and liner will be backfilled in place.

IDENTIFICATION OF LANDOWNERS

The disposal pond is located on Williams Field Service property. Land owners adjacent to Williams Field Services property and the Citizens Ditch are identified on the map labeled "Source and Discharge Locations".

LOCATION MAPS ATTACHED

"Source and Discharge Locations" - This drawing shows the location of the water source and evaporation pit and shows the location of Williams Field Service property and surrounding land owners.

Drawing No's 798.1-x-137 to 149 - Manzanares Gathering System, Trunk "A" Loop - These drawings provide detailed map of the pipeline to be tested.

Trunk "A" Loop - This drawing shows the line from Horse Canyon CDP to Milagro Plant.

Sundale Associates

ENGINEERING AND TESTING

VIA FAX

September 8, 1992

Williams Field Services, Inc.
Attn: Larry Lauderback or Bob Seitzinger
188 County Road 4900
Bloomfield, NM 87413

Re: Water Sampling - Citizens Ditch at NW 1/4 SW 1/4 Sec.13,
T29N, R11W

Flowing water was sampled from the referenced location 9/4/92 and transferred under Chain of Custody by Cynthia A. Sluyter to Inter-Mountain Laboratories in Farmington, New Mexico. The following results were obtained from the tests requested on approximately 0.5 gal. of water.

Lab Conductivity, umhos/cm @ 25 C 249

Total Dissolved Solids (180C), mg/L 196

We at Sundale Associates look forward to serving Williams Field Services on future projects.

Respectfully submitted,

SUNDALE ASSOCIATES, INC.

NORTHWEST PIPELINE CORPORATION

No. of
Pages 1

To	Lee Bawerle
Co.	10360
Dept.	
Fax No.	

From	Robert Seitzinger
Co.	NORTHWEST PIPELINE CORP.
Phone No.	
Fax No.	

92655

605 E. 7th Avenue
Durango, Colorado 81301
(303) 259-4192

706 W. Apache
Farmington, N.M. 87401
(505) 325-0769

SOURCE & DISCHARGE LOCATION

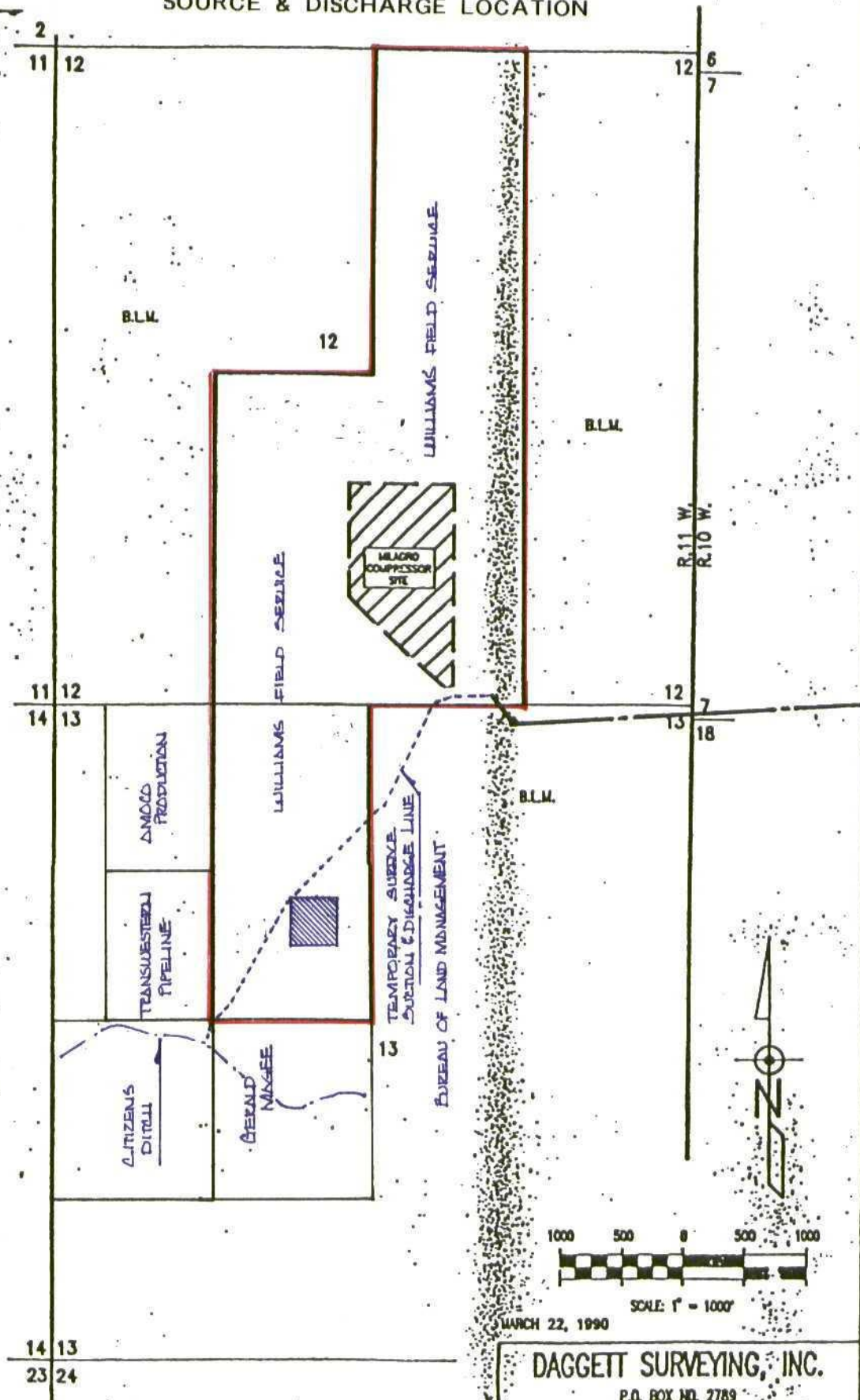
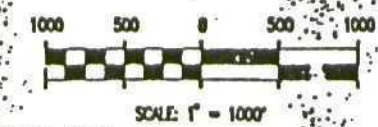


Figure 2



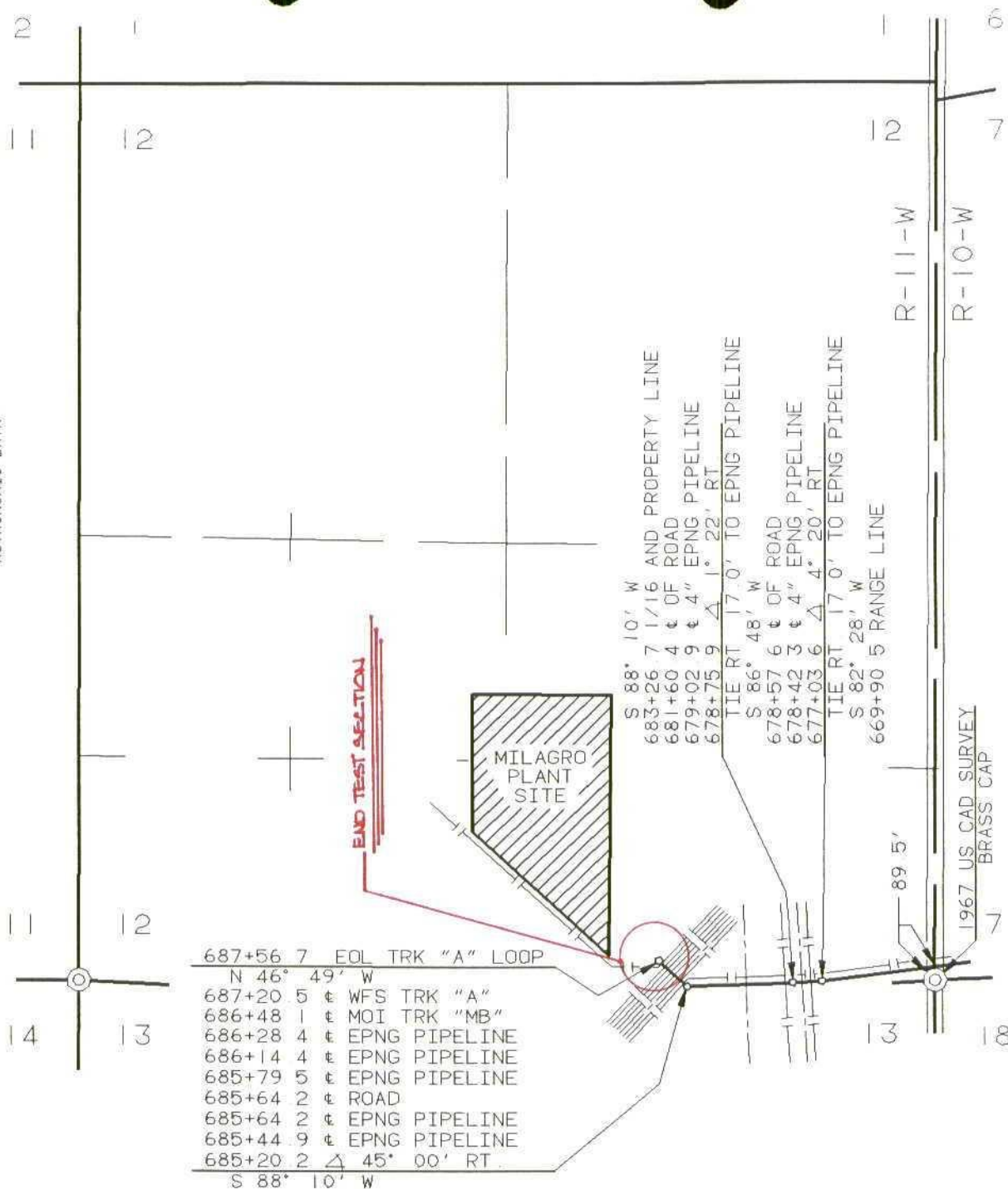
MARCH 22, 1990

DAGGETT SURVEYING, INC.

P.O. BOX NO. 2789
FARMINGTON, NEW MEXICO 87499-2789
(505) 326-1772

REGISTERED LAND SURVEYOR
R. HOWARD DAGGETT NEW MEXICO NO. 9679

NOTE: BEARINGS ARE BASED ON
ASTRONOMIC DATA



OWNER	STATION	FEET/RODS
BUREAU OF LAND MANAGEMENT	669+90.5 TO 683+26.7	1336.2/80.982
WFS	683+26.7 TO 687+56.7	430.0/26.061

R/W NO. 00415

THIS SURVEY IS BASED UPON MOI
TRUNK "MB" LOOP SURVEY AND WFS
TRUNK "A" SURVEY

WILLIAMS FIELD SERVICES COMPANY
MANZANARES GATHERING SYSTEM
TRUNK "A" LOOP

SE 1/4, SEC 12, T-29-N, R-11-W, NMPM
SAN JUAN COUNTY, NEW MEXICO

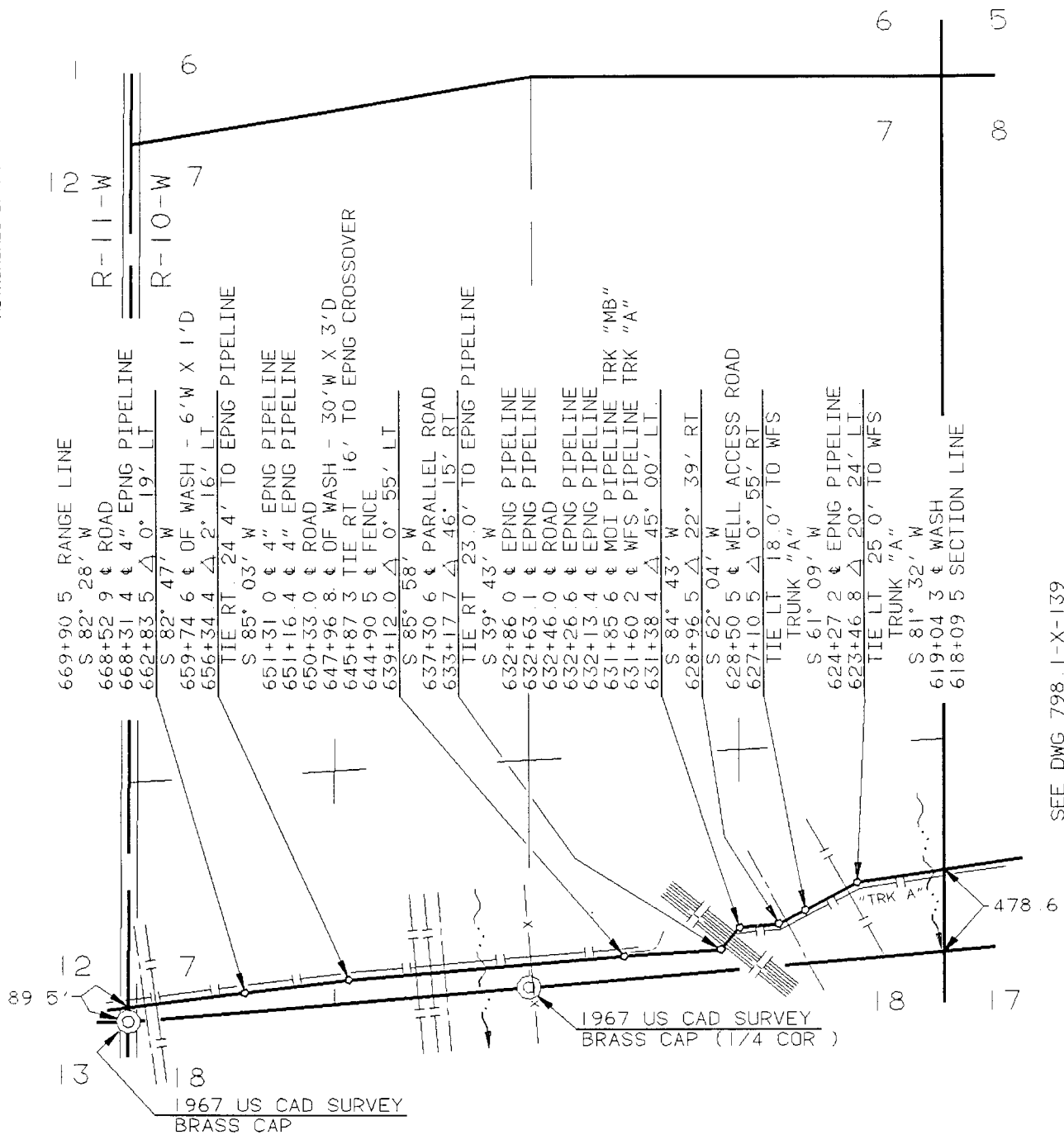
SIGNATURE		DATE	
1	REVISED PER OWNERSHIP CHANGE	FAO	5/92
NO	REVISION	BY	DATE
		APPR	
		SCALE 1" = 1000'	WO NO 10123
		CHK'D BY CFP	APPR RAP
		DWG NO 798	1-X-137 RI

SEE DWG 798 1-X-138

SEE DWG 798 1-X-137



NOTE
BEARINGS ARE BASED ON
ASTRONOMIC DATA.



OWNER	STATION	FEET/RODS
BUREAU OF LAND MANAGEMENT	618+09.5 TO 669+90.5	5181.0/314.000

R/W NO 00415

THIS SURVEY IS BASED UPON MOI
TRUNK "MB" LOOP SURVEY AND WFS
TRUNK "A" SURVEY

[Signature]
SIGNATURE

5/8/92
DATE

WILLIAMS FIELD SERVICES COMPANY
MANZANARES GATHERING SYSTEM
TRUNK "A" LOOP

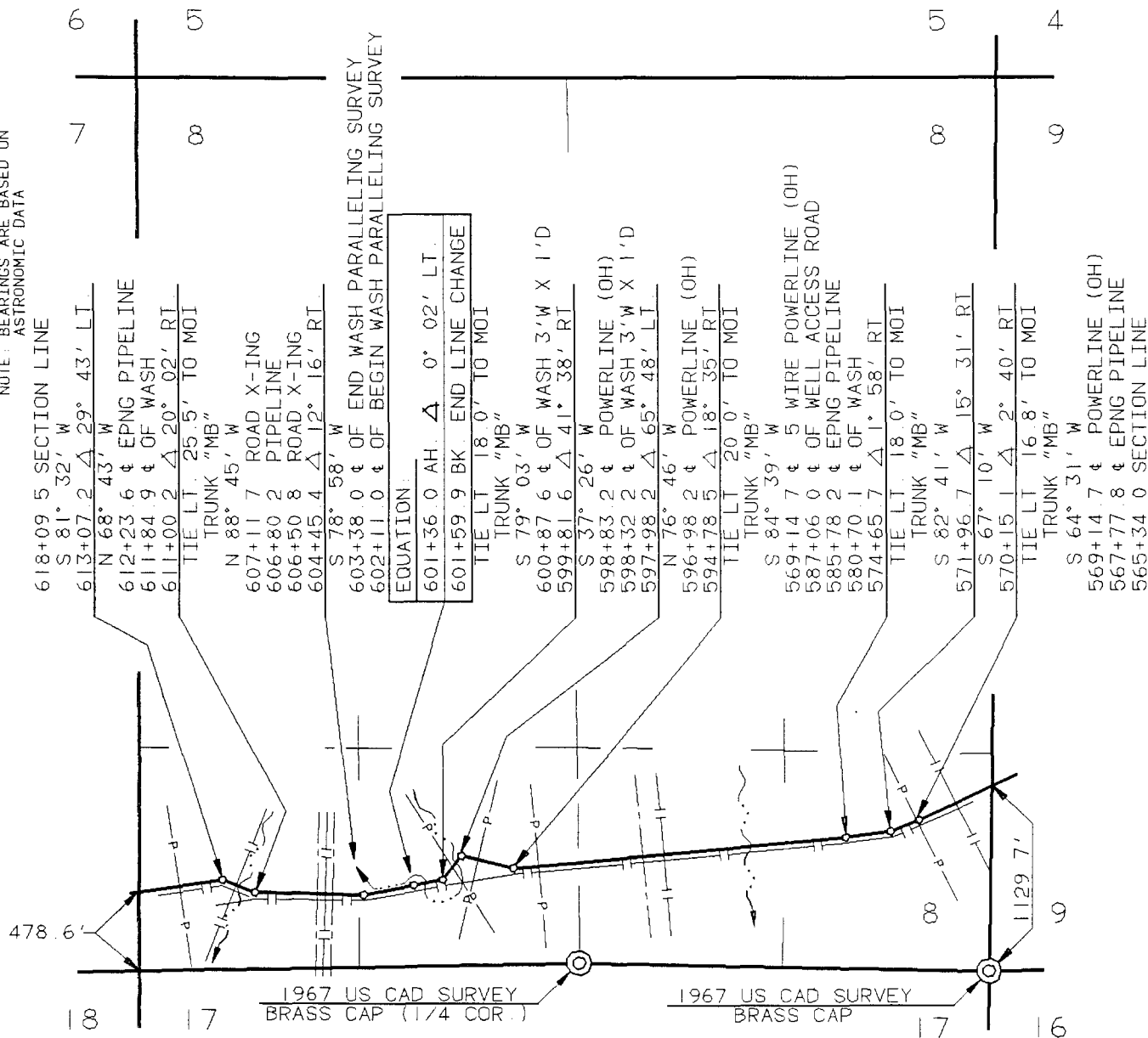
SI/2, SEC 7, T-29-N, R-10-W, NMPM
SAN JUAN COUNTY, NEW MEXICO

NO.	REVISION	BY	DATE	APPR	DRAWN BY ETS	DATE 4-27-92	CHK'D BY CFP	APPR <i>[Signature]</i>
					SCALE 1"=1000'	WO NO 10123	DWG NO 798 1-X-138	

SEE DWG 798 1-X-139

SEE DWG 798 1-X-138

NOTE: BEARINGS ARE BASED ON
ASTRONOMIC DATA



SEE DWG 798 1-X-140

OWNER	STATION	FEET/RODS
BUREAU OF LAND MANAGEMENT	565+34.0 TO 618+09.5	5275.5/319 727

R/W NO: 00415

THIS SURVEY IS BASED UPON MOI
TRUNK "MB" LOOP SURVEY AND WFS
TRUNK "A" SURVEY.

ROBERT PEACOCK

5/8/92

SIGNATURE

DATE

WILLIAMS FIELD SERVICES COMPANY

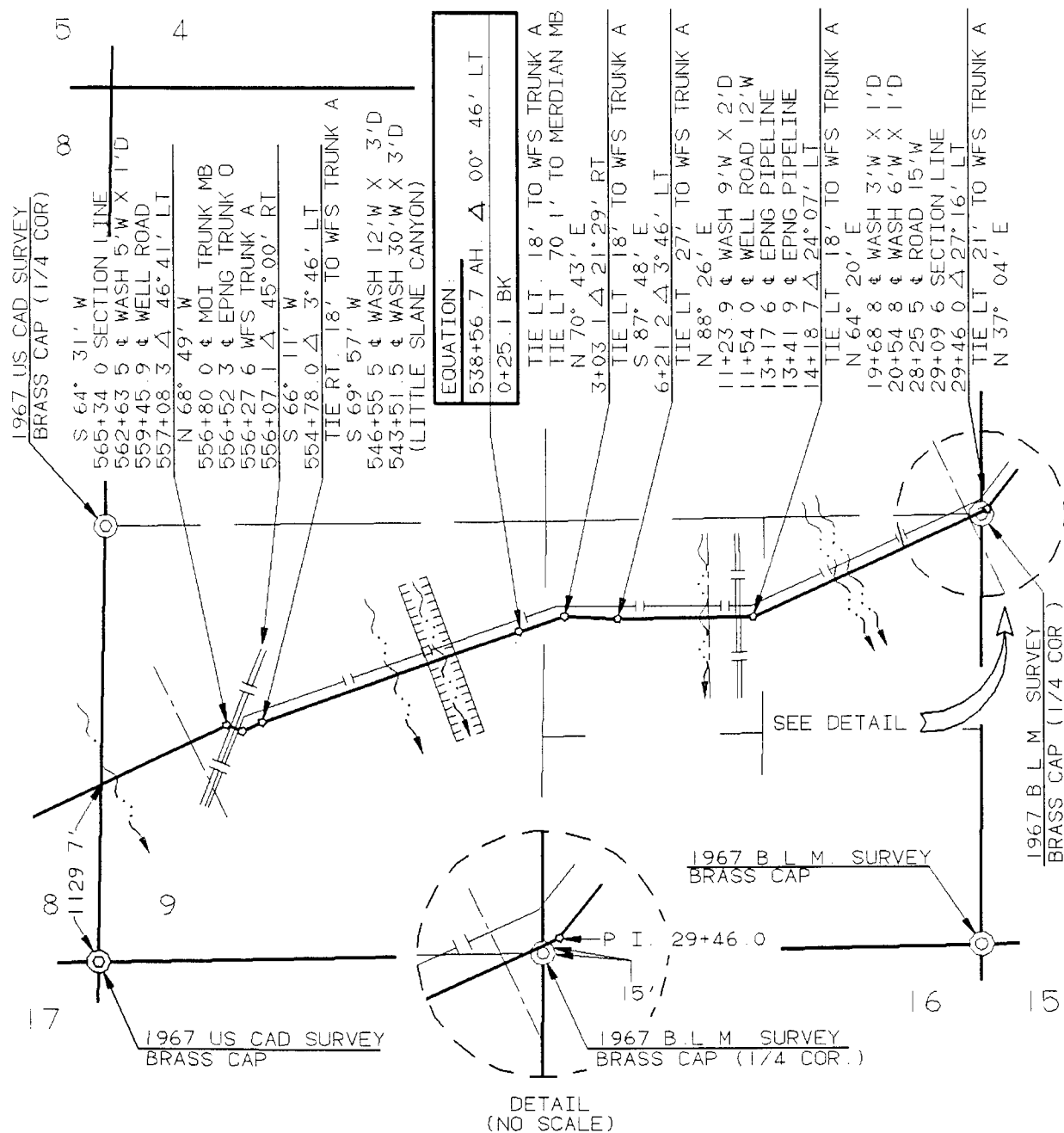
MANZANARES GATHERING SYSTEM

TRUNK "A" LOOP

SI/2, SEC 8, T-29-N, R-10-W, NMPM
SAN JUAN COUNTY, NEW MEXICO

I	REVISED PER LINE CHANGE DATED 6/18/92	JLT	6/23/92	RAP	DRAWN BY	ETS	DATE	4-24-92	CHK'D BY	CFP	APPR	RAP
NO.	REVISION	BY	DATE	APPR	SCALE	"=1000'	WO NO	10123	DWG NO	798.1-X-139	RI	

SEE DWG 798 1-X-139

NOTE
BEARINGS ARE BASED ON
ASTRONOMIC DATA.

SEE DWG 798 1-X-141

NOTE

E.S. 0+25.1 SURVEY RUNS EASTERLY DIRECTION
E.S. 538 56.7 SURVEY RUNS WESTERLY DIRECTION

OWNER	STATION	FEET/RODS
BUREAU OF LAND MANAGEMENT	565+34.0 TO 29+09.6	5561.8/337.079

R/W NO. 00415

THIS SURVEY IS BASED UPON MOI
TRUNK "MB" LOOP SURVEY AND WFS

TRUNK "A" SURVEY

SIGNATURE

DATE

5/8/92

WILLIAMS FIELD SERVICES COMPANY

MANZANARES GATHERING SYSTEM

TRUNK "A" LOOP

S1/2, SEC 9, T-29-N, R-10-W, NMPM

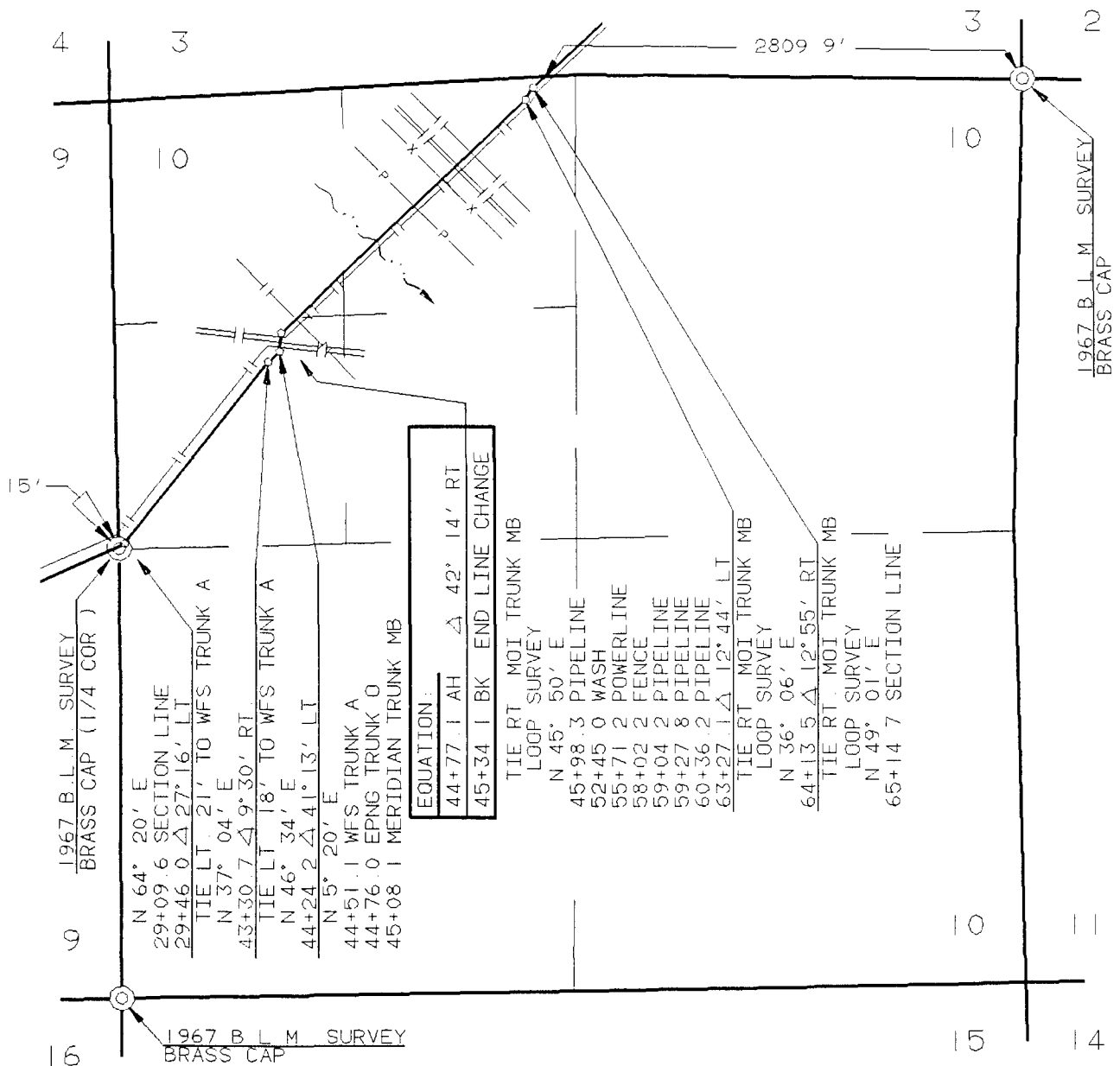
SAN JUAN COUNTY, NEW MEXICO

DRAWN BY FAO DATE 4/24/92 CHK'D BY CFP APPR CFP
SCALE 1"=1000' WG NO 10123 DWG NO 798 1-X-140

REVISION

BY DATE APP

SEE DWG 798 1-X-140

NOTE: BEARINGS ARE BASED ON
ASTRONOMIC DATA.

OWNER	STATION	FEET/RODS
BUREAU OF LAND MANAGEMENT	29+09 6 TO 65+14 7	3548.1/215.036

R/W NO. 00415

THIS SURVEY IS BASED UPON MOI
TRUNK "MB" LOOP SURVEY AND WFS
TRUNK "A" SURVEY

SIGNATURE

DATE

5/8/92

WILLIAMS FIELD SERVICES COMPANY

MANZANARES GATHERING SYSTEM

TRUNK "A" LOOP

SEC 10, T-29-N, R-10-W, NMPM

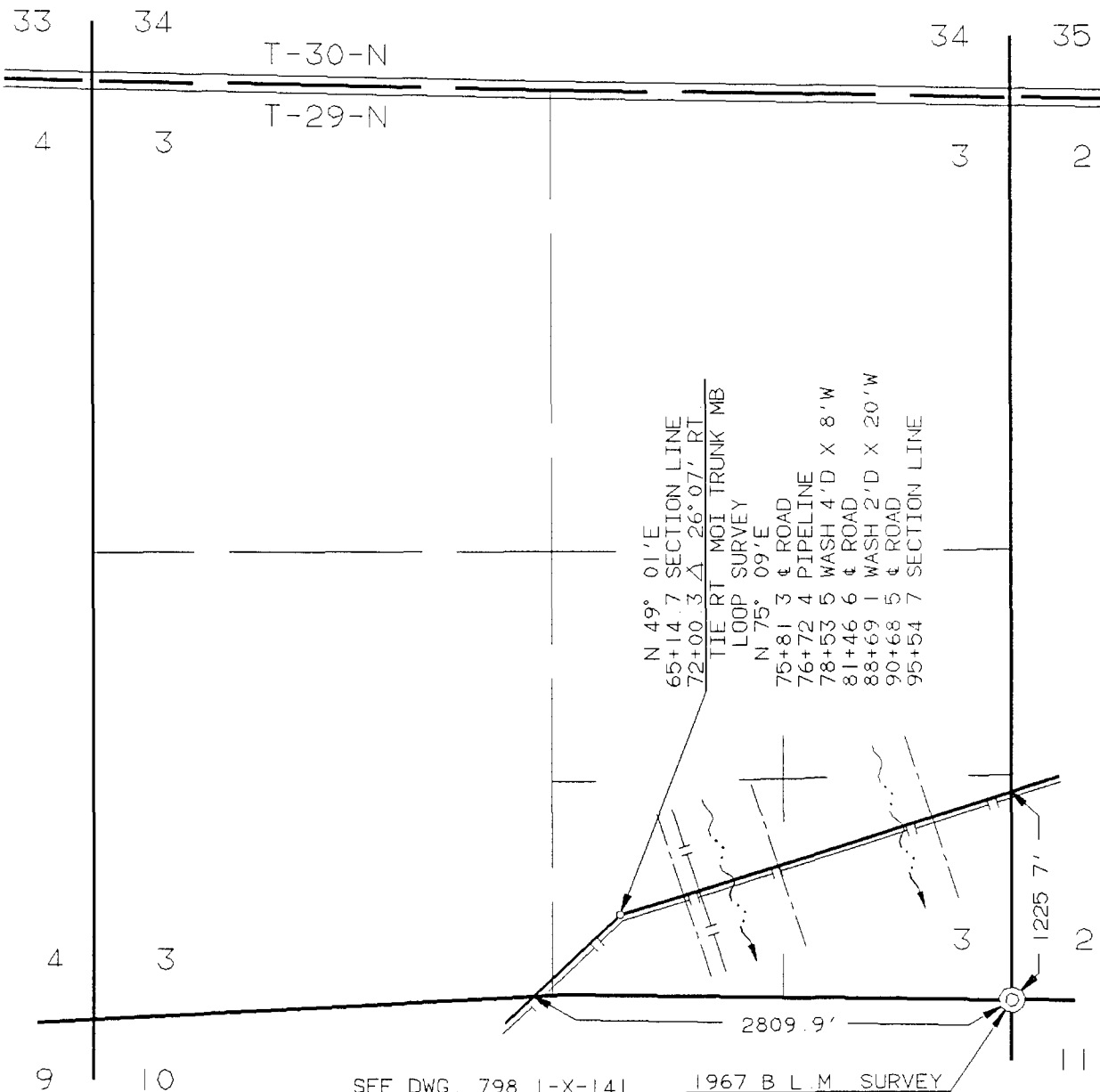
SAN JUAN COUNTY, NEW MEXICO

DRAWN BY	FAO	DATE	4/25/92	CHK'D BY	CFP	APPR	38AP
SCALE	"=1000'	WO NO	10123	DWG NO	798 1-X-141		

REVISION

BY DATE APP

NOTE: BEARINGS ARE BASED ON
ASTRONOMIC DATA.



SEE DWG. 798 1-X-143

OWNER	STATION	FEET/RODS
BUREAU OF LAND MANAGEMENT	65+14.7 TO 95+54.7	3040.0/184.242

R/W NO. 00415

THIS SURVEY IS BASED UPON MOI
TRUNK "MB" LOOP SURVEY AND WFS
TRUNK "A" SURVEY

WILLIAMS FIELD SERVICES COMPANY
MANZANARES GATHERING SYSTEM
TRUNK "A" LOOP
SEC 3, T-29-N, R-10-W, NMPM
SAN JUAN COUNTY, NEW MEXICO

SIGNATURE

DATE

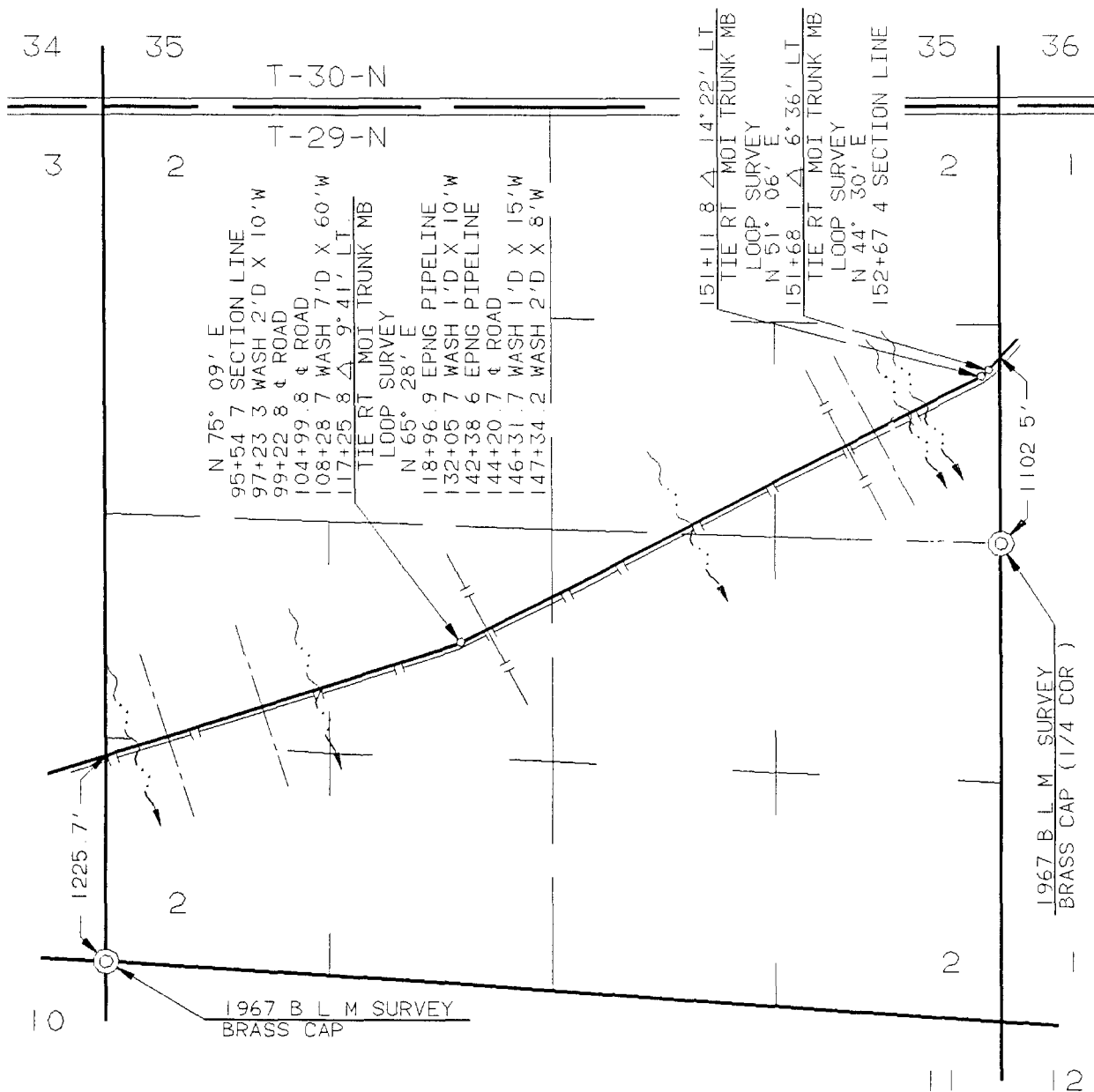
5/8/92

NO	REVISION	BY	DATE	APP	DRAWN BY	DATE	CHK'D BY	APP
					FAO	4/27/92	CFP	SNP
					SCALE	1"=1000'	WO NO	10123
					DWG NO	798 1-X-142		

SEE DWG 798 1-X-142



NOTE BEARINGS ARE BASED ON
ASTRONOMIC DATA



SEE DWG 798 1-X-144

OWNER	STATION	FEET/RODS
STATE OF NEW MEXICO	95+54.7 TO 152+67.4	5712.7/346.224

R/W NO. 00415

THIS SURVEY IS BASED UPON MOI
TRUNK "MB" LOOP SURVEY AND WFS
TRUNK "A" SURVEY

[Signature]

5/8/92

SIGNATURE

DATE

WILLIAMS FIELD SERVICES COMPANY

MANZANARES GATHERING SYSTEM

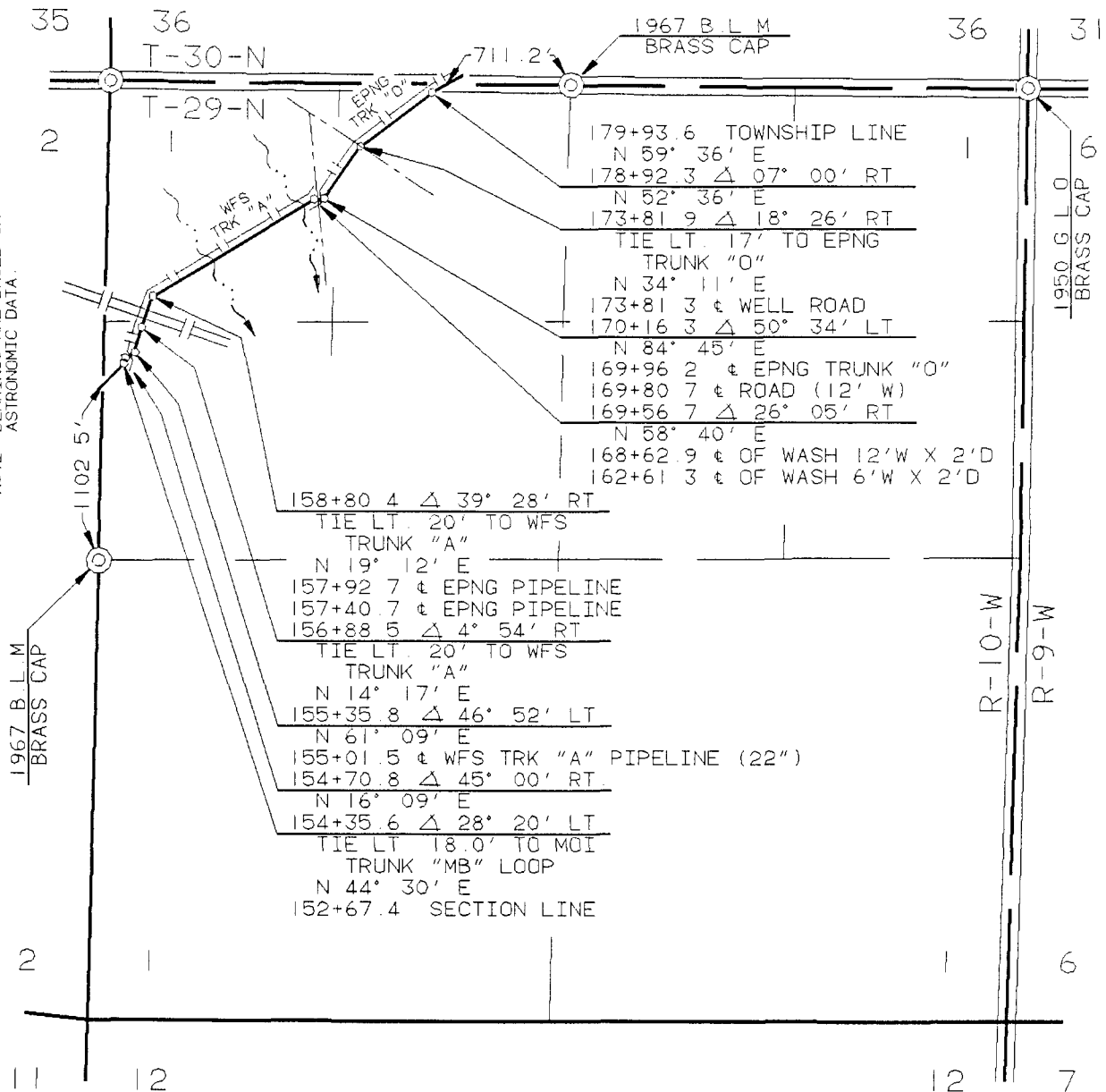
TRUNK "A" LOOP

SEC 2, T-29-N, R-10-W, NMPM

SAN JUAN COUNTY, NEW MEXICO

NO	REVISION	BY	DATE	APP	DRAWN BY	DATE	CHK'D BY	APP
					FAO	4/27/92	CFP	<i>[Signature]</i>
					SCALE	1"=1000'	WO NO	10123
					DWG NO	798.1-X-143		

SEE DWG 798 1-X-143

NOTE BEARINGS ARE BASED ON
ASTRONOMIC DATA.

OWNER	STATION	FEET/RODS
BUREAU OF LAND MANAGEMENT	152+67.4 TO 179+93.6	2726 2/165.224

R/W NO. 00415

THIS SURVEY IS BASED UPON MOI
TRUNK "MB" LOOP SURVEY AND WFS
TRUNK "A" SURVEY

SIGNATURE

5/8/92
DATE**WILLIAMS FIELD SERVICES COMPANY**

MANZANARES GATHERING SYSTEM

TRUNK "A" LOOP

NW1/4, SEC 1, T-29-N, R-10-W, NMPM

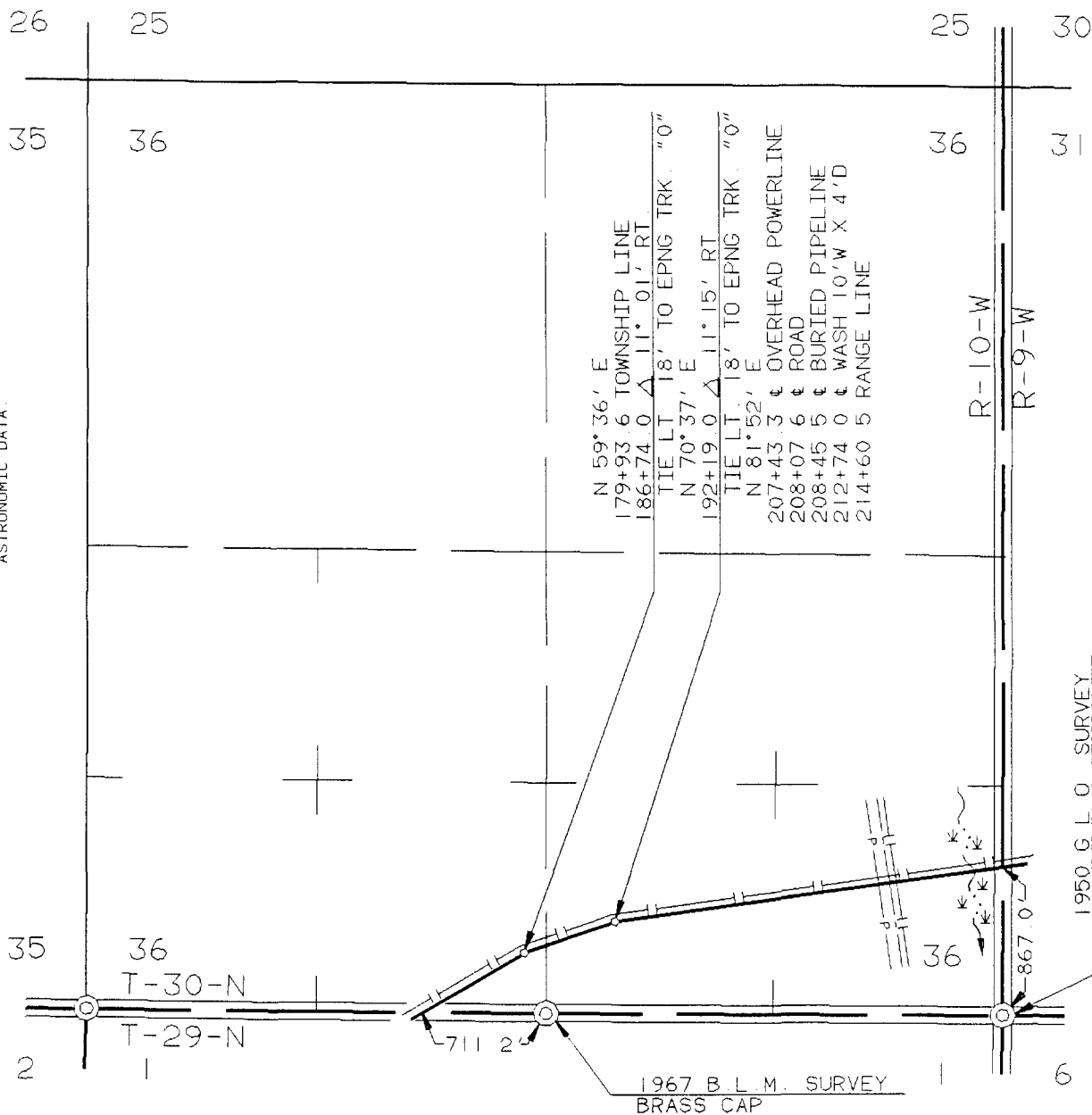
SAN JUAN COUNTY, NEW MEXICO

DRAWN BY ETS DATE 4-27-92 CHK'D BY CFP APPR *[Signature]*
SCALE 1"=1000' WO NO 10123 DWG NO 798 1-X-144

NO. REVISION BY DATE APPR



NOTE BEARINGS ARE BASED ON
ASTRONOMIC DATA.



SEE DWG 798 1-X-144

SEE DWG 798 1-X-146

OWNER	STATION	FEET/RODS
STATE OF NEW MEXICO	179+93.6 TO 214+60.5	3466 6/210 115

R/W NO: 00415

THIS SURVEY IS BASED UPON MOI
TRUNK "MB" LOOP SURVEY AND WFS
TRUNK "A" SURVEY

[Signature] 5/8/92
SIGNATURE DATE

WILLIAMS FIELD SERVICES COMPANY

MANZANARES GATHERING SYSTEM

TRUNK "A" LOOP

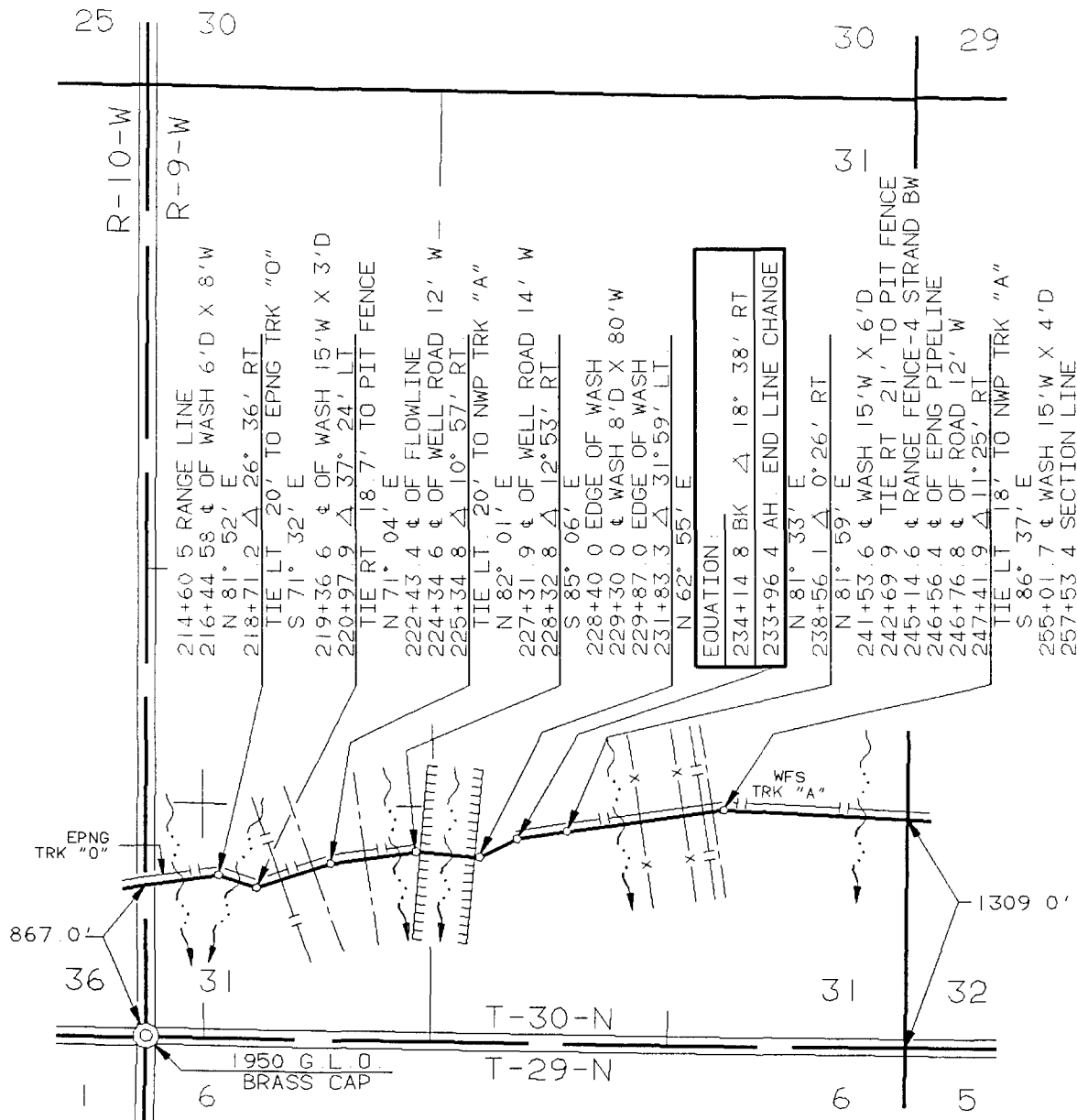
SI/2, SEC 36, T-30-N, R-10-W, NMPM
SAN JUAN COUNTY, NEW MEXICO

NO	REVISION	BY	DATE	APPR	DRAWN BY MB	DATE 5-02-92	CHK'D BY CFP	APPR <i>[Signature]</i>
					SCALE 1"=1000'	WO NO 10123	DWG NO 798 1-X-145	



NOTE: BEARINGS ARE BASED ON
ASTRONOMIC DATA.

SEE DWG. 798.1-X-145



OWNER	STATION	FEET/RODS
BUREAU OF LAND MANAGEMENT	214+60.5 TO 257+53.4	4292.9/260.176

R/W NO: 00415

THIS SURVEY IS BASED UPON MOI
TRUNK "MB" LOOP SURVEY AND WFS
TRUNK "A" SURVEY.

ROBERT PEACOCK
SIGNATURE

5/8/92
DATE

WILLIAMS FIELD SERVICES COMPANY
MANZANARES GATHERING SYSTEM
TRUNK "A" LOOP

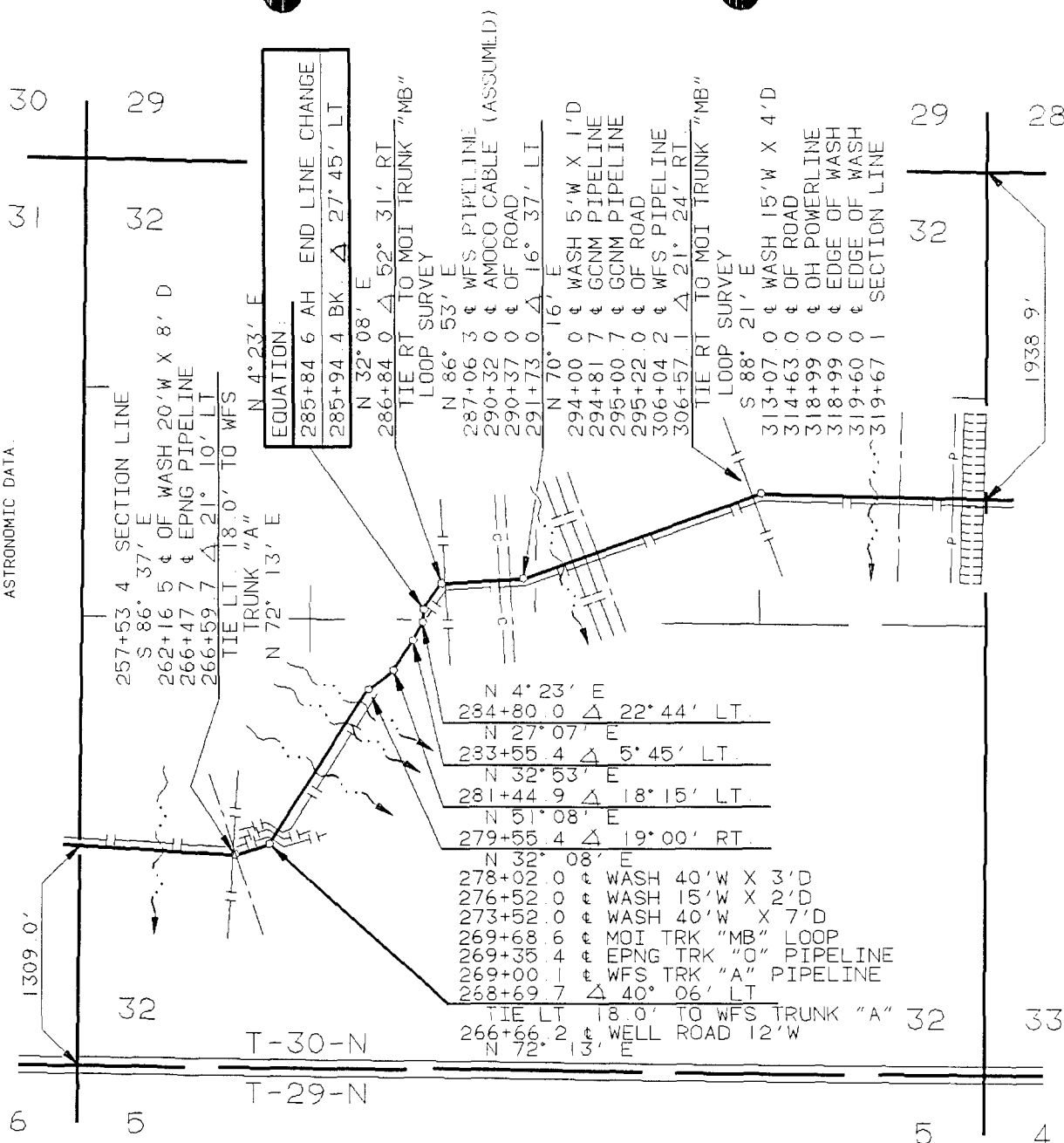
S1/2, SEC 31, T-30-N, R-9-W, NMPM
SAN JUAN COUNTY, NEW MEXICO

1	REVISED PER CORRECTION ON SECT. LINE	FAO	6/92	226	DRAWN BY	Phil	DATE	5-2-92	CHK'D BY	CFP	APPR	RAP
NO	REVISION	BY	DATE	APPR	SCALE	1"=1000'	WO NO	10123	DWG NO	798.1-X-146 R1		

SEE DWG. 798.1-X-147

SEE DWG 798 1-X-146

NOTE BEARINGS ARE BASED ON
ASTRONOMIC DATA.



OWNER	STATION	FEET/RODS
BUREAU OF LAND MANAGEMENT	257+53.4 TO 319+67.1	6213 7/376 588

R/W NO. 00415

THIS SURVEY IS BASED UPON MOI
TRUNK "MB" LOOP SURVEY AND WFS
TRUNK "A" SURVEY.

ROBERT PEACOCK

5/8/92

SIGNATURE

DATE

WILLIAMS FIELD SERVICES COMPANY

MANZANARES GATHERING SYSTEM
TRUNK "A" LOOP

SEC 32, T-30-N, R-9-W, NMPM
SAN JUAN COUNTY, NEW MEXICO

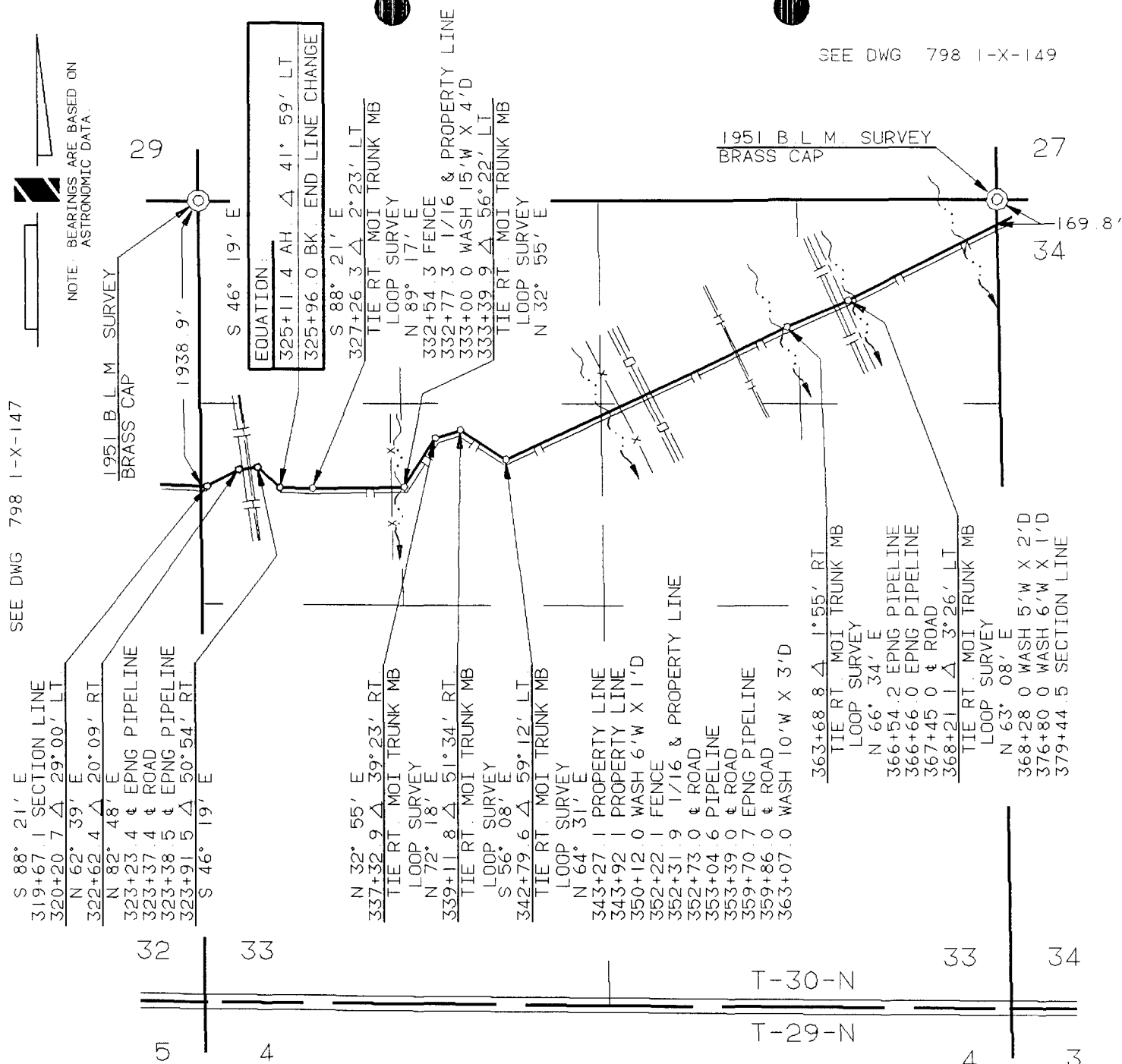
1	REVISED PER CORRECTION ON SECT. LINE	FAO	6/9/92	AND	DRAWN BY	ETS	DATE	4-27-92	CHK'D BY	CFP	APPR	RAP
NO.	REVISION	BY	DATE	APPR	SCALE	1"=1000'	WO NO	10123	DWG NO	798.1-X-147	RI	

SEE DWG 798 1-X-148

SEE DWG 798 1-X-147

SEE DWG 798 1-X-149

NOTE - BEARINGS ARE BASED ON
ASTRONOMIC DATA.



OWNER	STATION	FEET/RODS
BUREAU OF LAND MANAGEMENT	319+67.1 TO 332+77.3	1394.8/84.533
GENEVIEVE JACQUEZ	332+77.3 TO 343+27.1	1049.8/63.624
MOGI	343+27.1 TO 343+92.1	65.0/3.939
GENEVIEVE JACQUEZ	343+92.1 TO 352+31.9	839.8/50.897
BUREAU OF LAND MANAGEMENT	352+31.9 TO 379+44.5	2712.6/164.400

R/W NO. 00415

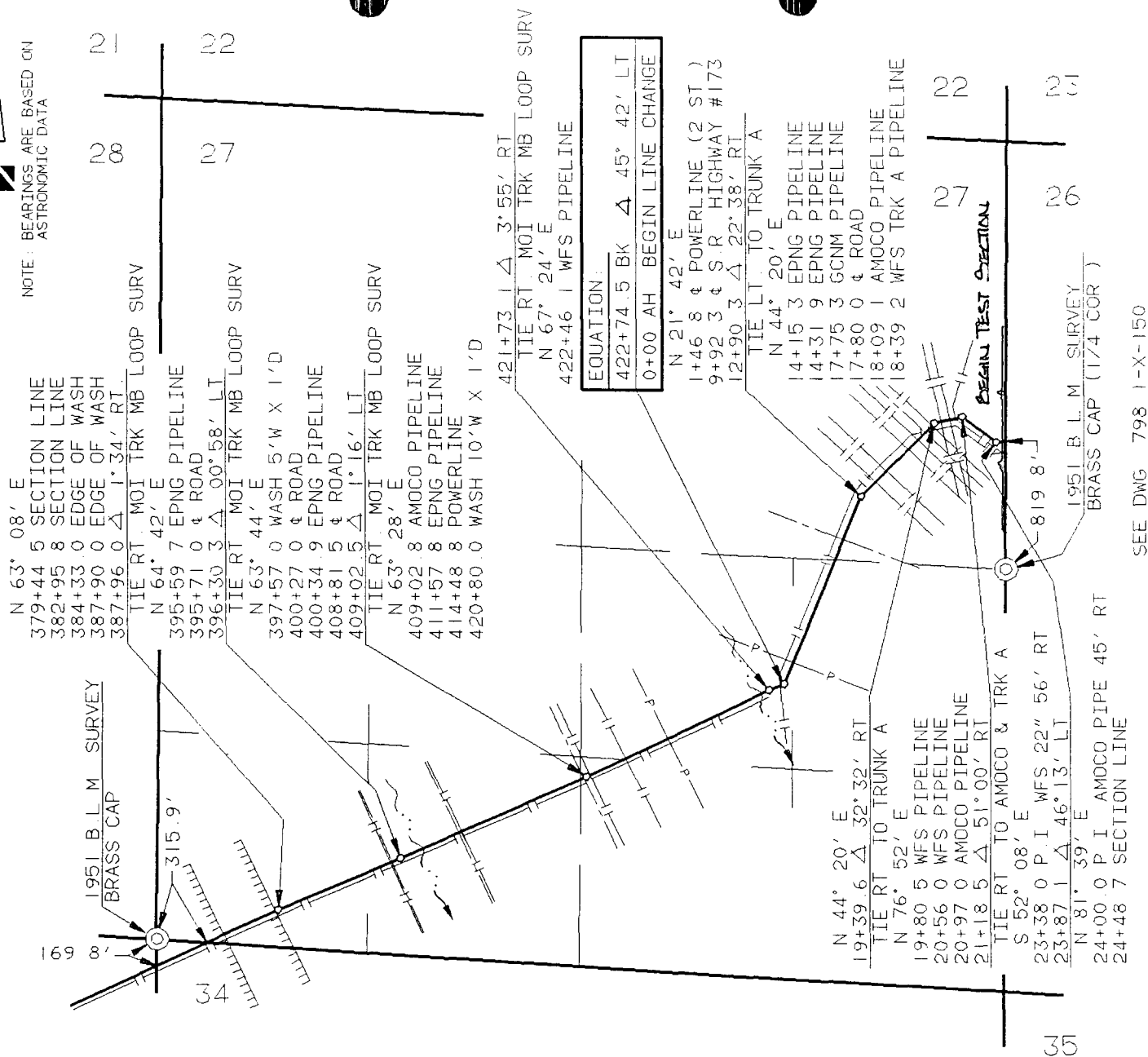
THIS SURVEY IS BASED UPON MOI
TRUNK "MB" LOOP SURVEY AND WFS
TRUNK "A" SURVEY

WILLIAMS FIELD SERVICES COMPANY
MANZANARES GATHERING SYSTEM
TRUNK "A" LOOP
SEC 33, T-30-N, R-9-W, NMPM
SAN JUAN COUNTY, NEW MEXICO

ROBERT PEACOCK				5/8/92				SEC 33, T-30-N, R-9-W, NMPM			
SIGNATURE				DATE				SAN JUAN COUNTY, NEW MEXICO			
3	REVISED PER PHONE CALL DATED 6/10/92			FAO	6/92	RAP					
2	REVISED PER LINE CHANGE DATED 6/3/92			FAO	6/92	RAP					
NO	REVISION			BY	DATE	APP	SCALE 1"=1000'	WO NO 10123	DWG NO 798	-X-148 R3	

SEE DWG 798 1-X-148

NOTE: BEARINGS ARE BASED ON
ASTRONOMIC DATA



OWNER	STATION	FEET/RODS
BUREAU OF LAND MANAGEMENT	379+44.5 TO 24+48.7	6778 7/410 830

R/W NO.: 00415

THIS SURVEY IS BASED UPON MOI
TRUNK "MB" LOOP SURVEY AND WFS
TRUNK "A" SURVEY

SIGNATURE

DATE _____

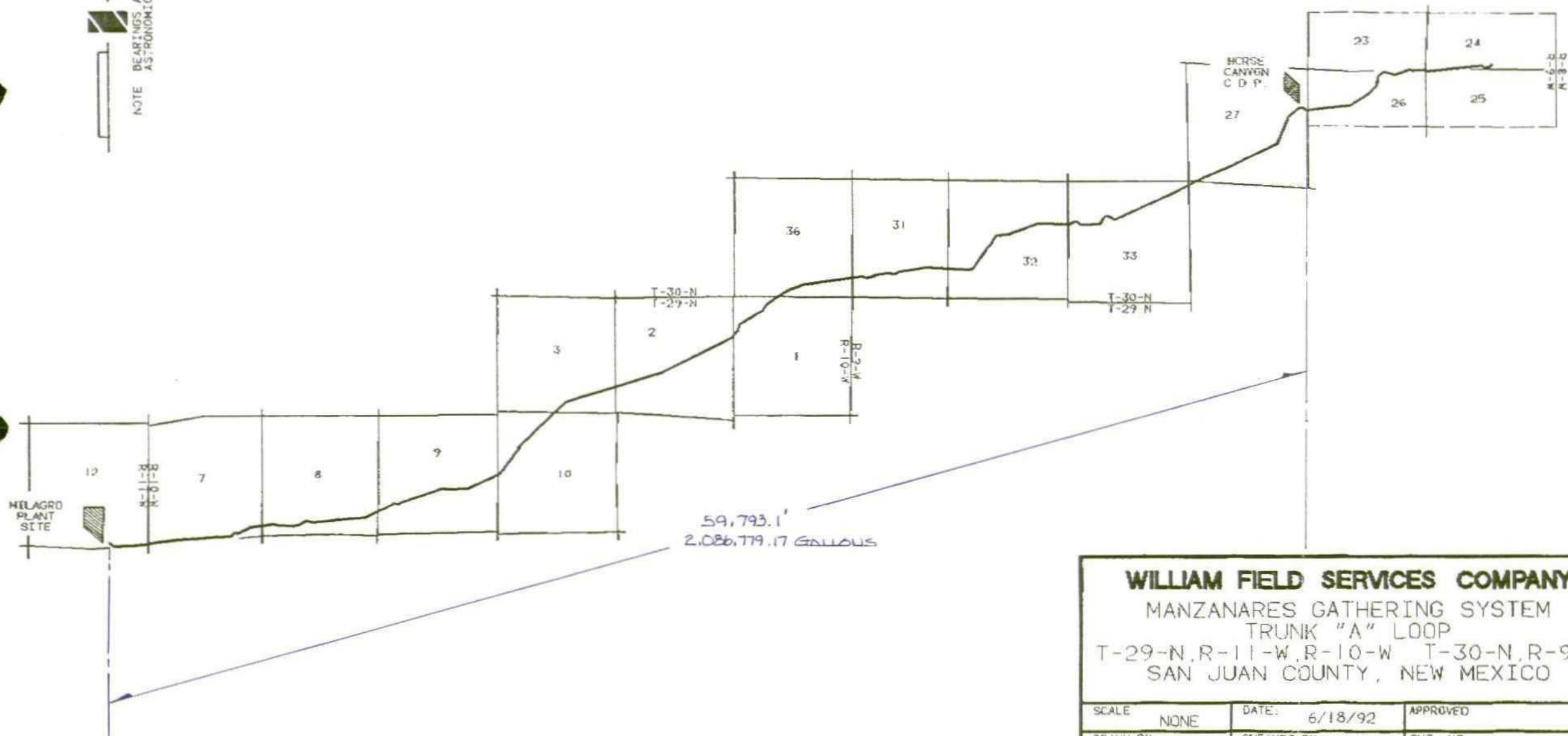
5/8/92

WILLIAMS FIELD SERVICES COMPANY
MANZANARES GATHERING SYSTEM
TRUNK "A" LOOP

SEC. 34 & 27, T-30-N, R-9-W, NMPM
SAN JUAN COUNTY, NEW MEXICO

					SAN JUAN COUNTY, NEW MEXICO								
					DRAWN BY RLG		DATE 5/06/92		CHK'D BY CFP		APPR 		
NO	REVISION				BY	DATE	APP	SCALE 1"=1000'		WO NO 10123		DWG NO 798 1-X-149	

NOTE BEARINGS ARE BASED ON
ASTRONOMIC DATA



WILLIAM FIELD SERVICES COMPANY

MANZANARES GATHERING SYSTEM
TRUNK "A" LOOP

T-29-N, R-11-W, R-10-W T-30-N, R-9-W
SAN JUAN COUNTY, NEW MEXICO

SCALE NONE	DATE 6/18/92	APPROVED
DRAWN BY JLT/FAO	CHECKED BY FAO	DWG NO

11
DIVISION
91 FEB 11 AM 9 23

WILLIAMS FIELD SERVICES COMPANY

ONE OF THE WILLIAMS COMPANIES



P.O. BOX 58900
SALT LAKE CITY, UTAH 84158-0900
801-583-8800

February 8, 1991

Mr. Dave Boyer
New Mexico Oil Conservation Division
P.O. Box 2088
Santa Fe, NM 87501

Dear Mr. Boyer:

Williams Field Services requests authorization to dispose of approximately 600 barrels of hydrostatic test wastewater from the Milagro Plant at an evaporation pond installed by Northwest Pipeline for disposal of the same type of hydrotest water from pipeline construction. A copy of the permit application and approval letter are attached.

The pond currently has about three (3) feet of freeboard. It has capacity for more water, approximately 7,124 barrels, maintaining a two (2) foot freeboard.

Hydrotest water has been obtained from the town of Bloomfield. We propose to discharge into the pond as soon as February 15, 1991. Please provide your authorization before that date. If you have any questions or comments, contact me at (801) 584-6730.

*Validly approved
2/14/91 RST*

Sincerely,

Sandy Fishler
Environmental Specialist

SF/pm

attachment(s)

0042



STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION

GARREY CARRUTHERS
GOVERNOR

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87504
(505) 827-5800

August 15, 1990

CERTIFIED MAIL
RETURN RECEIPT NO. P-918-402-343

Mr. Dave Hooper
Environmental Specialist
Northwest Pipeline Corporation
P. O. Box 8900
Salt Lake City, Utah 84108-0900

RE: DISPOSAL OF HYDROTEST WATER

Dear Mr. Hooper:

The Oil Conservation Division (OCD) has reviewed your application, dated August 1, 1990, requesting authorization to dispose of approximately 1,200,000 gallons of hydrostatic test wastewater in a lined pit located in the SE/4, NW/4, Section 13, Township 29 North, Range 10 West, (NMPM) San Juan County, New Mexico. The wastewater will be generated from the testing of NWP's new 30" line from Ignacio to Bloomfield.

The application was submitted pursuant to Water Quality Control Commission (WQCC) Regulation 3-106.B and is hereby approved pursuant to that regulation with the following conditions:

1. The pond will be fenced to prevent unauthorized disposal of other fluids into the pit.
2. As agreed to by phone on August 13th, the pit will be closed after evaporation of fluids by removing the liner from the pit sides and folding it into the center of the pit prior to covering. This will prevent surface blowing of deteriorated plastic.

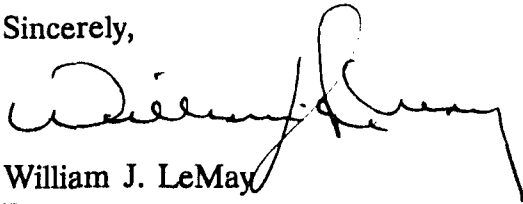
Mr. Dave Hooper
August 15, 1990
Page -2-

Pursuant to WQCC Regulation 3-106.B, this approval will allow you to discharge without an approved discharge plan for a period not to exceed 120 days. If this site is to be used for more than one hydrotest, formal reapplication must be made. If the discharge exceeds 120 days, a formal discharge plan must be submitted for review.

Please be advised that the approval of this plan does not relieve you of liability should your operation result in actual pollution of surface or ground waters which may be actionable under other laws and/or regulations.

If there are any questions, please call David Boyer at (505) 827-5812.

Sincerely,

A handwritten signature in dark ink, appearing to read 'William J. LeMay', written over the printed name.

William J. LeMay
Director

WJL/RCA/sl

NORTHWEST PIPELINE CORPORATION
ONE OF THE WILLIAMS COMPANIES

P.O. BOX 8900
SALT LAKE CITY, UTAH 84108 0900
801 583 8800

August 1, 1990

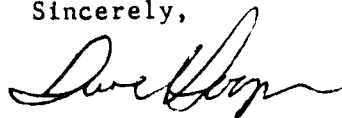
Mr. Dave Boyer
Oil Conservation Division
P.O. Box 2088
Santa Fe, NM 87501

Dear Mr. Boyer:

Enclosed please find the plan for filling and discharging water for a proposed 30" pipeline hydrostatic test scheduled tentatively for the week of December 10, 1990.

Should you have questions concerning the plan, contact me at (801) 584-6725.

Sincerely,



Dave Hooper
Environmental Specialist

DH/pm

0002

NORTHWEST PIPELINE CORPORATION
HYDROSTATIC TEST AND DISCHARGE PLAN

30" SAN JUAN BASIN PIPELINE PROJECT
(NEW PIPELINE OVER 100,000 GALLONS)

Northwest Pipeline Corporation hereby submits its hydrostatic testing and discharge plan for the required approval by the New Mexico Oil Conservation Division (OCD). The test is tentatively scheduled for the week of December 10, 1990. Attached are quadrangle sections showing the section of new pipeline to be tested, the proposed fill and discharge locations and water analysis of the Ignacio Plant evaporation pond, the source of the fill water.

PIPELINE ROUTE

The pipeline route begins approximately 10 miles southwest of Durango, Colorado at Northwest's (NWP's) Ignacio Plant and extends 33.4 miles south to El Paso's Blanco Plant, 2 miles northeast of Bloomfield, New Mexico. This pipeline will replace a 4" liquid line recently removed, within and on the west side of the 300-foot wide pipeline corridor, the entire distance.

The elevation at Ignacio Plant is 6,600 feet above sea level and the terrain rises to a high of 7,520 feet, approximately 5.2 miles to the south and thereafter to a low of 5,600 at Blanco Plant.

DESCRIPTION OF THE PROPOSED TEST

Sources of Water: NWP Evaporation Pond, NE 1/4 NE 1/4, Sec. 35, T-34-N, R-9-W, LaPlata County, Colorado

Point of Discharge: SE 1/4 NW 1/4, Sec. 13, T-29-N, R-10-W, San Juan County, New Mexico

The Pipeline will be constructed with new 30" diameter, 0.325" wall thickness, high strength steel (65,000 psi tensile) pipe. After construction, NWP proposes to hydrotest this line by filling at the North end and testing in approximately seven test sections. The water will be transferred and reused after each test.

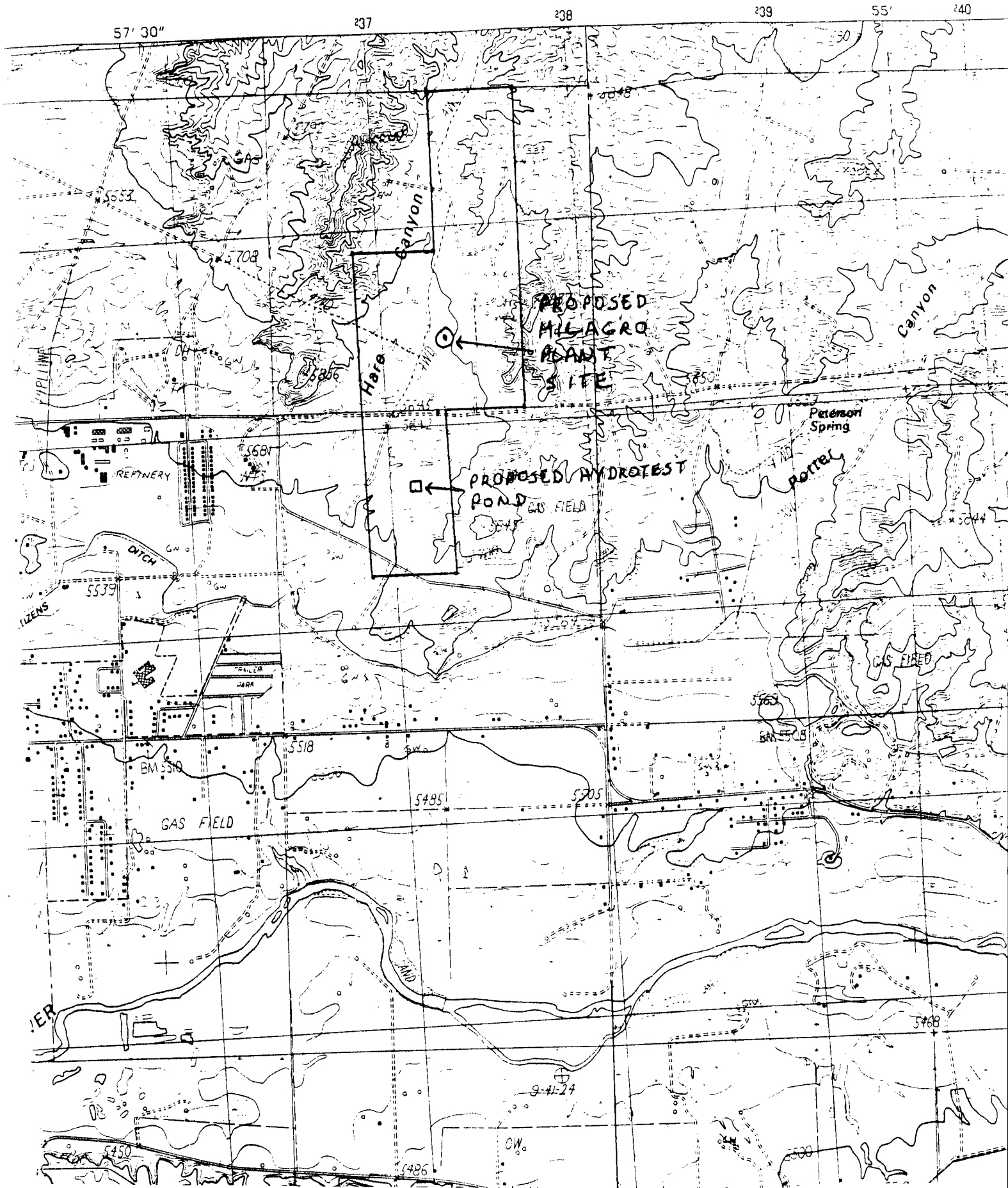
Approximately 1,200,000 gallons will be initially filled from NWP's Ignacio evaporation pond, tested and subsequently "cascaded" through each test section. This will insure a minimum of a five-mile test for the required elevation differences. If weather conditions are such that the test water will create freezing problems, it may be necessary to inject approximately 400 gallons of methanol at each exposed test head location.

After testing is completed, the water will be pumped to a zero discharge containment pond located on the site for the proposed Milagro Plant owned by Williams Field Services (WFS) (see map). Williams Field Services is a subsidiary company of Northwest Pipeline. The containment pit will be approximately 200' by 200' in area and incised to a depth of three feet. A compacted dirt embankment will be built up to a height of 3 feet around the perimeter of the pond. With two foot freeboard, the depth of water will not exceed four feet, allowing a storage capacity of approximately 1.2 million gallons. Because depth to ground water is estimated to be 50 to 80 feet at the site, subsurface seepage will be prevented by lining the entire pond with a 12 mil woven reinforced, black plastic polyethylene surface liner.

The pond will remain in service until all water is evaporated. Other than precipitation, the pond will receive no other water or waste material. After all water is evaporated, the pond and liner will be backfilled in place in a manner satisfactory to the Division.

SAN JUAN 30" HYDROTEST

BLOOMFIELD QUAD



NORTHWEST PIPELINE CORPORATION
ONE OF THE WILLIAMS COMPANIES

P.O. BOX 8900
SALT LAKE CITY, UTAH 84108-0900
801-583-8800

OIL CONSERVATION DIVIS
RECEIVED

'90 AUG 3 AM 9 0.

August 1, 1990

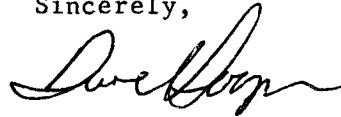
Mr. Dave Boyer
Oil Conservation Division
P.O. Box 2088
Santa Fe, NM 87501

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Sincerely,



Dave Hooper
Environmental Specialist

DH/pm

0002

NORTHWEST PIPELINE CORPORATION
HYDROSTATIC TEST AND DISCHARGE PLAN

30" SAN JUAN BASIN PIPELINE PROJECT
(NEW PIPELINE OVER 100,000 GALLONS)

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PIPELINE ROUTE

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The elevation at Ignacio Plant is 6,600 feet above sea level and the terrain rises to a high of 7,520 feet, approximately 5.2 miles to the south and thereafter to a low of 5,600 at Blanco Plant.

DESCRIPTION OF THE PROPOSED TEST

Sources of Water: NWP Evaporation Pond, NE 1/4 NE 1/4, Sec. 35, T-34-N, R-9-W, LaPlata County, Colorado

Point of Discharge: SE 1/4 NW 1/4, Sec. 13, T-29-N, R-10-W, San Juan County, New Mexico

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Approximately 1,200,000 gallons will be initially filled from NWP's Ignacio evaporation pond, tested and subsequently "cascaded" through each test section. This will insure a minimum of a five-mile test for the required elevation differences. If weather conditions are such that the test water will create freezing problems, it may be necessary to inject approximately 400 gallons of methanol at each exposed test head location.

After testing is completed, the water will be pumped to a zero discharge containment pond located on the site for the proposed Milagro Plant owned by Williams Field Services (WFS) (see map). Williams Field Services is a subsidiary company of Northwest Pipeline. The containment pit will be approximately 200' by 200' in area and incised to a depth of three feet. A compacted dirt embankment will be built up to a height of 3 feet around the perimeter of the pond. With two foot freeboard, the depth of water will not exceed four feet, allowing a storage capacity of approximately 1.2 million gallons. Because depth to ground water is estimated to be 50 to 80 feet at the site, subsurface seepage will be prevented by lining the entire pond with a 12 mil woven reinforced, black plastic polyethylene surface liner.

The pond will remain in service until all water is evaporated. Other than precipitation, the pond will receive no other water or waste material. After all water is evaporated, the pond and liner will be backfilled in place in a manner satisfactory to the Division.



Inter-Mountain
Laboratories, Inc.

2506 West Main Street
Farmington, New Mexico 87401
Tel. (505) 326-4737

CLIENT: NW Pipeline
ID: N/A
SITE: Evaporation Pond
LAB NO: F4068

DATE REPORTED: 04/05/90
DATE RECEIVED: 03/28/90
DATE COLLECTED: 03/28/90

Lab pH (s.u.).....	7.04
Lab Conductivity, umhos/cm.....	3227
Lab resistivity, ohm-m.....	3.0989
Total Dissolved Solids (180), mg/l..	1854
Total Dissolved Solids (calc), mg/l.	1784
Total Alkalinity as CaCO ₃ , mg/l.....	148.98
Total Acidity as CaCO ₃ , mg/l.....	0.00
Total Hardness as CaCO ₃ , mg/l.....	383.15
Sodium Absorption Ratio.....	10.23
Phenols, mg/l.....	0.031
Chemical Oxygen Demand, mg/l.....	153.5
Total organic halogens, mg/l.....	0.011

	mg/l	meq/l
Bicarbonate as HCO ₃	181.8	2.98
Carbonate as CO ₃	0.0	0.00
Chloride.....	471.1	13.29
Sulfate.....	604.5	12.59
Calcium.....	115.4	5.76
Magnesium.....	23.2	1.91
Potassium.....	20.2	0.52
Sodium.....	460.4	20.03
Major Cations.....		28.21
Major Anions.....		28.86
Cation/Anion Difference.....		1.15 %

Trace metals by ICAP (Dissolved Concentration), mg/l

	Analytical Result:	Detection Limit:
Boron (B).....	0.10	<0.01
Copper (Cu).....	0.01	<0.01
Iron (Fe).....	0.85	<0.05
Manganese (Mn).....	0.31	<0.02
Phosphorus (P).....	0.4	<0.3

Trace metals by ICAP (EP Tox leachate Concentration), mg/l

	Analytical Result:	Detection Limit:
Silver (Ag).....	0.02	<0.01
Arsenic (As).....	ND	<0.3
Barium (Ba).....	0.17	<0.05
Cadmium (Cd).....	0.018	<0.01
Chromium (Cr).....	0.02	<0.01
Lead (Pb).....	ND	<0.05
Selenium (Se).....	ND	<0.3

C. Neal Schaeffer
C. Neal Schaeffer



Inter-Mountain
Laboratories, Inc.

2506 West Main Street
Farmington, New Mexico 87401
Tel. (505) 326-4737

CLIENT: NW Pipeline

ID: N/A

SITE: Evaporation Pond

LAB NO: F4068

Analysis Requested: Purgeable aromatics in water.

DATE REPORTED: 04/05/90

DATE ANALYZED: 04/05/90

DATE RECEIVED: 03/28/90

DATE COLLECTED: 03/28/90

Parameter	Concentration	Units
-----	-----	-----
Benzene	ND (1.0)	ug/l
Toluene	ND (1.0)	ug/l
Ethylbenzene	ND (1.0)	ug/l
m/p-Xylene	ND (1.0)	ug/l
o-Xylene	ND (1.0)	ug/l
1,4-Dichlorobenzene	ND (1.0)	ug/l
1,3-Dichlorobenzene	ND (1.0)	ug/l
1,2-Dichlorobenzene	ND (1.0)	ug/l
Chlorobenzene	ND (1.0)	ug/l

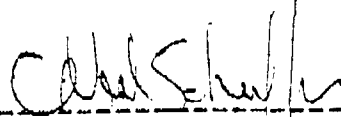
Method:

8020 Aromatic Volatile Organics, SW-846, USEPA (1982).

602 Purgeable Aromatics, 40 CFR, Part 136.

(Detection limit in parenthesis.)

ND - Parameter not detected at the stated detection limit.



C. Neal Schaeffer
Senior Chemist

SAN JUAN 30" HYDROTEST

BLOOMFIELD QUAD

