

SN 13355.
CANSTA @ LCOND



Williams Oil Gathering, L.L.C.
P.O. Box 645
Tulsa, Oklahoma 74101-0645
1800 South Baltimore
Tulsa, Oklahoma 74119-5284
918/581-1800
918/560-9115 fax

April 20, 2001

Mr. Donald C. Howard
Regional Supervisor
U. S. Department of the Interior
Minerals Management Service
1201 Elmwood Park Boulevard
New Orleans, Louisiana 70123-2394

Attention: Mr. Alex Alvarado - MS 5232

RE: Application for 4.5-Inch Oil Right-of-Way Pipeline To Be Installed In Block 261, Main Pass Area, OCS Federal Waters, Gulf of Mexico, Offshore, Louisiana

Gentlemen:

Pursuant to the authority granted in Section 5 (e) of the Outer Continental Shelf Lands Act (67 Stat. 462) (43 U.S.C. 1331), as amended (92 Sta. 629), and in compliance with the regulations contained in Title 30 CFR, Part 250, Subpart J, Williams Oil Gathering, L.L.C., (Williams) is filing this application in quadruplicate (original and three copies) for a right-of-way easement two hundred feet (200') in width for the construction, maintenance and operation of a 16-inch natural gas right-of-way pipeline to be installed in Block 261, Main Pass Area, located in OCS Federal Waters, Offshore, Louisiana. Williams agrees that said right-of-way, if approved, will be subject to the terms and conditions of said regulations.

The proposed 4.5-inch pipeline will transport liquid hydrocarbons. It will originate at Williams' proposed platform in Block 261 (Lease OCS-G 13035) and proceed in a northwesterly direction approximately 4627.23 feet (.88 miles) to a subsea tie-in point on Equilon Pipeline Company, LLC's existing 8-inch line (Segment No. 9551, OCS-G 13408), also in Block 261, all being located in Main Pass Area, for ultimate delivery to shore.

Williams Oil Gathering, L.L.C. will employ Williams Field Services as operator of the subject right-of-way pipeline.

The calculated worst case discharge from the proposed pipeline is less than 1000 barrels. Therefore, Certification of Oil Spill Financial Responsibility is not required.

Additionally, a review of our Regional Oil Spill Response Plan to determine if installation of the subject right-of-way pipeline affects the current worst case discharge is not applicable.

Minerals Management Service
4.5-Inch Oil Right-of-Way Pipeline
Block 261, Main Pass Area
April 20, 2001

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Installation of the proposed pipeline will be accomplished by utilizing a typical lay/bury barge(s). Water depth along the pipeline route varies from 299-feet to 288-feet. Therefore, the pipeline will be laid on the seafloor.

There is one foreign pipeline crossings along the pipeline route. The pipelines will be separated by two layers of 9-inch thick concrete mats, thereby maintaining 18-inches of seperation.

The riser at Williams' proposed platform in Main Pass 261 will be installed inside a leg of the structure.

Williams hereby requests a waiver from NTL 98-20, Section IV.B, which requires the buoying of all existing pipeline(s) and other potential hazards located within 150 meters (490) feet of the proposed operations. Utilizing the on-board graphic system during construction operations, Williams will comply with the recommended avoidance criteria for the magnetic anomalies along the proposed pipeline route identified in the Fugro Geoservices, Inc. Pipeline Pre-Lay Survey Report.

The proposed construction operations will be supported by a crewboat and tug, each making approximately seven (7) trips per week, respectively, from an onshore facility located in Venice, Louisiana.

Williams anticipates commencing installation on approximately July 9, 2001, with an overall completion of project time being estimated at nine (9) days.

This application (and any amendments made hereto) is made with our full knowledge and concurrence with the OCS Lands Act (43 U.S.C. 1331, et. seq.), as amended (P.L. 95-372), including the following: Sec. 5(e) addressing pipeline rights-of-way, requirements of the Federal Energy Regulatory Commission relating to notice of hearing, transportation and purchase of oil and gas without discrimination; Sec. 5(f)(1) addressing operation of pipelines in accordance with competitive principles, including open and nondiscriminatory access to both owner and non-owner shippers; Sec. 5(f)(2) which may allow exemption of the requirements in Sec. 5(f)(1); Sec. 5(e) addressing the assuring of maximum environmental protection, including the safest practices for pipeline installation; and Sec. 5(f)(1)(B) which may require expansion of throughput capacity of any pipeline except for the Gulf of Mexico or the Santa Barbara Channel.

Additionally, we expressly agree that if any site, structure, or object of historical or archaeological significance should be discovered during the conduct of any operations within the permitted right-of-way, we shall report immediately such findings to the Director, Gulf of Mexico OCS Region, and make every reasonable effort to preserve and protect the cultural resource from damage until said Director has given directions as to its preservation.

Minerals Management Service
4.5-Inch Oil Right-of-Way Pipeline
Block 261, Main Pass Area
April 20, 2001

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In accordance with applicable regulations, we have forwarded information regarding the proposed project by certified mail, return receipt requested, to each designated oil and gas lease operator, right-of-way or easement holder whose lease, right-of-way or easement is so affected. A list of such Minerals Management Service designated operators, right-of-way or easement holders is included as Attachment A and copies of the return receipts showing date and signature as evidence of service upon such operators, right-of-way or easement holders will be forwarded to your office when received.

In order to expedite the permit process, we have requested a letter from the operator, right-of-way or easement holder expressing no objection to the proposed project. When obtained, these letters will be forwarded to your office. The proposed right-of-way does not adjoin or subsequently cross state submerged lands.

Applicant agrees to be bound by the foregoing regulations, and further agrees to comply with the applicable stipulations as set forth in Title 30 CFR 250 (Subpart J) and that certain Letter to Lessees dated April 18, 1991.

In support of our application and for your review and use, the following maps, drawings and documents have been enclosed herewith and made a part hereof:

1. Originally signed copy of Nondiscrimination in Employment Stipulation is attached to each copy of the application.
2. Designated Oil & Gas Lease Operators and Right-of-Way Holders (Attachment A).
3. General Information and Calculations for Design and Construction of 4.5-Inch Oil Pipeline.
4. Plan and Profile Pipeline Route Map (Sheets 1 through 2 of 2).
5. Foreign Pipeline Crossing Drawing.
6. Pipeline Safety Flow Schematic (Drawing No. 901).
7. Riser Detail Drawings at proposed Canyon Station Platform in Main Pass 261 (Drawing Nos. 88-2365-S10-09-161 and 162).

Minerals Management Service
4.5-Inch Oil Right-of-Way Pipeline
Block 261, Main Pass Area
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8. Hot Tap Assembly Details for subsea tie-in on Viosca Knoll Gathering Company 20-inch Pipeline in Main Pass Block 261 (Drawing No. 9002).
9. Pipeline Tie-In Clamp Details (Drawing No. 9003).
10. 3-1/2-inch diskette of the proposed pipeline route.
11. Check in the amount of \$2365.00 covers the application fee of \$2350 plus \$15.00 for the first year rental on .88 miles of right-of-way.
12. **Note: Please refer to the application for 12-inch pipeline from Canyon Station Platform to a subsea tie-in point on Viosca Knoll Gathering Company's existing 20-inch line for 3 copies of the Hazardous Survey Report. This report covers Williams proposed Canyon Station Platform and all four departing pipelines in Main Pass Block 261.**


Contact on technical points or other information:

Wanda E. Richmond
J. Connor Consulting, Inc.
16225 Park Ten Place, Suite 700
Houston, Texas 77084
Telephone: (281) 578-3388; email address:wanda@jccteam.com

Williams hereby agrees to keep open at all reasonable times for inspection by the Minerals Management Service, the area covered by this right-of-way and all improvements, structures, and fixtures thereon and all records relative to the design, construction, operation, maintenance, and repairs, or investigations on or with regard to such area."

Please refer to your New Orleans Miscellaneous File No. 02385 for a copy of a resolution approved by the Board of Directors authorizing the undersigned to sign for and on behalf of Williams Oil Gathering, L.L.C. Additionally, Williams Oil Gathering, L.L.C. has an approved \$300,000 Right-of-Way Grant Bond on file with MMS, covering installation of right-of-way pipelines in Federal Waters, Gulf of Mexico.

Sincerely,


WILLIAMS FIELD SERVICES - GULF COAST COMPANY, L. P.

Alan S. Armstrong
Vice President/Midstream Gas and Liquids,
Asset Optimization
ASA:wer
Attachments and Enclosures

Minerals Management Service
4.5-Inch Oil Right-of-Way Pipeline
Block 261, Main Pass Area
April 20, 2001

Page Five

cc: Devon SFS Operating Inc.
840 Gessner, Ste. 1400
Houston, TX 77024
Attn (Certified Mail No. Z-580-779-530)

Equilon Pipeline Company, LLC
Attn: Right-of-Way Dept.
1100 Louisiana
Houston, TX 77002
(Certified Mail No. Z-580-779-531)

Dauphin Island Gathering Partners
Attn: Jerry Crofton
4227 Decker Drive
P.O. Box 426
Baytown, TX 77520
(Certified Mail No. Z-580-779-532)

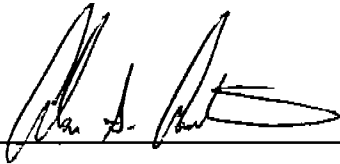
NONDISCRIMINATION IN EMPLOYMENT

As a condition precedent to the approval of the granting of the subject pipeline right-of-way, the grantee, Williams Oil Gathering, L.L.C. hereby agrees and consents to the following stipulation, which is to be incorporated into the application for said right-of-way.

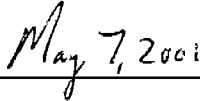
During the performance of this grant, the grantee agrees as follows:

During the performance under this grant, the grantee shall fully comply with paragraphs (1) through (7) of section 202 of Executive Order 11246, as amended (reprinted in 41 CFR 60-1.4(a)), which are for the purpose of preventing discrimination against persons on the basis of race, color, religion, sex or national origin. Paragraphs (1) through (7) of section 202 of Executive Order 11246, as amended, are incorporated in this grant by reference.

Signature

A handwritten signature in black ink, appearing to be "Alan S. [unclear]", written over a horizontal line.

Date

A handwritten date "May 7, 2001" written in black ink over a horizontal line.

ATTACHMENT A

The following Designated Oil & Gas Lease Operators and Right-of-Way Holders have been furnished information regarding the proposed pipeline installation by Certified Mail, Return Receipt Requested. (Note: The status of blocks listed below is current, per research of MMS records by J. Connor Consulting, Inc.).

MAIN PASS AREA

BLOCK 261

Devon SFS Operating Inc.	OCS-G 13035	Oil & Gas Lease
Viosca Knoll Gathering Partners	OCS-G 14292	Right-of-Way*
Dauphin Island Gathering Partners	OCS-G 21022	Right-of-Way
Equilon Pipeline Company, LLC	OCS-G 13408	Right-of-Way
Transcontinental Gas Pipe Line Company	OCS-G 20503	Right-of-Way*
Williams Field Services, Gulf Coast Company, L.P.	OCS-G 21485	Right-of-Way*
Destin Pipeline Co. LLC	OCS-G11930	Right-of-Way*

*Not affected by proposed right-of-way.

Williams Oil Gathering, L.L.C.
4" Oil Pipeline
Main Pass 261 "JP" to
Main Pass 261 Equilon 8" Pipeline
Rev. 0, 3/22/01

PIPELINE DESIGN INFORMATION

I. Pipeline and Riser Description

A. Nominal Pipeline:

Size:	4.500 Inch
Wall Thickness:	0.337 Inch
Grade:	API 5L Gr. X42, Seamless
Length:	4,627 Feet, 0.88 Miles
Bare Weight:	14.98 lbs/ft
Protection Coating Type and Thickness:	Fusion Bonded Epoxy; 12-14 mils
Weight Coating:	None
Specific Gravity of Pipe in Seawater (empty):	2.12

B. Riser:

Size:	4.500 Inch
Wall Thickness:	0.337 Inch
Grade:	API 5L Gr. X42, Seamless
Bare Weight:	14.98 lbs/ft
Protection Coating Type and Thickness:	

- Below Splash Zone: Fusion Bonded Epoxy; 12-14 mils
- In Splash Zone: Splasatron Coating; ½ Inch
- Above Splash Zone: Fusion Bonded Epoxy; 12-14 mils and/or a three coat paint system; 12 mils DFT.

Weight Coating:	None
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II. Cathodic Protection System

The pipeline will be protected by sacrificial anodes as described below. The pipe between the riser insulating flange will be protected by the pipeline cathodic protection system. The riser clamps will be insulated from the riser by a neoprene coating installed on the inside of the clamps. Above the insulating flange, the riser is protected by a thin film epoxy coating system and the platform cathodic protection system.

Pipeline and Riser Sacrificial Anodes System:

Design Life:	50 yrs.
Type of Anode:	Galvalum III
Spacing Interval:	500 ft.
Output:	1150 Amps - hrs./lb.
Efficiency:	0.85
Current Density:	2 ma/sq. ft.
% Assumed Bare Pipe:	5.0%
Minimum Required Weight of Anode:	N/A

$$\# = (.002)(3.14159)(4.500)(500)(.05)(50)(365)(24)/(1,150)(12)(.85) = 26.4 \text{ lbs.}$$

Use one (1) 30# net weight anode every 500 feet.

III. Water-Depth for Pipeline:

The water depth along the pipeline varies from approximately (-)299 feet to (-)288 feet.

IV. Description of Internal Protective Measures:

Internal Coating:	None
Corrosion Inhibitor Program:	As necessary
Pigging Program:	A Pigging Schedule has not been defined, however, depending on the analysis of the transported product, a program will be initiated as necessary.

V. Riser Protection

At Main Pass 261 "JP", the riser will be protected the jacket framing.

VI. Specific Gravity of the Empty Pipe Based on Seawater:

The formula used to calculate the specific gravity is as follows:

$$\text{S.G.} = \frac{(W_P + W_{\text{CONC}})}{W_{\text{H}_2\text{O}}}$$

Where:

$$W_p = \text{Weight of the pipe (lbs/ft)} = 14.98$$

$$W_{CONC} = \text{Weight of Concrete (lbs/ft)} = 0$$

$$W_{H2O} = \text{Displaced weight of the seawater (lbs/ft)} = 7.07$$

The above weights are based on the pipe outside diameter and corrosion coating thickness and on the densities of the various materials that are listed below.

$$\text{Density of Pipe} = 490 \text{ lbs/ft}^3$$

$$\text{Density of Seawater} = 64 \text{ lbs/ft}^3$$

$$\text{The specific gravity of the pipeline} = 2.12$$

VII. Specific Gravity of the Product:

The specific gravity of the oil to be transported is anticipated to be:

$$\text{S.G. (Oil)} = 0.85 \text{ (Water} = 1.0) @ T = 80 \text{ Degrees}$$

VIII. Design Capacity:

The design flowing capacity of the pipeline is 6,000 BLPD. The total volume capacity of the pipeline is 66 bbls.

IX. Maximum Operating Pressure:

1. Calculations based on CFR, Title 30, Part 250, Subparts H and J.

$$P = \frac{2st}{D}$$

$$P1 = \frac{2s(t-ca)(F)(E)(T)}{D}$$

Where:

- P = Pressure as 100% SMYS (psig)
P1 = Internal Design Pressure (psig)
s = Specified Minimum Yield Strength (SMYS) (psi)
t = Pipe Wall Thickness in Inches
ca = Corrosion Allowance (use 0.03")
D = Pipe Outside Diameter in Inches
(F) = Design Factor
0.50 for Risers
0.72 for Pipeline
(E) = Joint Factor
1.0 for Seamless Pipe
(T) = Temperature Derating Factor
1.0 for Operating Temperatures below 250 Degrees Fahrenheit

1) Pipeline: 4.500" OD x 0.337" W.T. API 5L Gr. X42

- a) $P = (2)(42,000)(0.337)/4.500 = 6,291$ psig
b) $P1 = (2)(42,000)(0.337-0.03)(0.72)(1.0)(1.0)/4.500 = 4,126$ psig
c) Hydrostatic Test Pressure = HTP
Maximum HTP = $0.95 P = (0.95)(6,291) = 5,976$ psig
Minimum HTP will be 3,330 psig for 8 hour hold time.
Rated MAOP = $3,330 \text{ psig}/1.5 = 2,220$ psig
d) Maximum Allowable Operating Pressure (MAOP) = 2,220 psig

2) Riser Pipe: 4.500" OD x 0.337" W.T. API 5L Gr. X42

- a) $P = (2)(42,000)(0.337)/4.500 = 6,291$ psig
b) $P1 = (2)(42,000)(0.337-0.03)(0.5)(1.0)(1.0)/4,500 = 2,865$ psig
c) Hydrostatic Test Pressure = HTP
Maximum HTP = $0.95 P = (0.95)(6,291) = 5,976$ psig
Minimum HTP will be 3,330 psig for 8 hour hold time.
Rated MAOP = $3,330 \text{ psig}/1.5 = 2,220$ psig
d) Maximum Allowable Operating Pressure (MAOP) = 2,220 psig

B. MAOP of Flange, Fittings and Valves:

1) Under Water:

ANSI 900 class = 2,220 psig

2) Platform Facilities (See Safety Schematic):

ANSI 900 class = 2,220 psig

C. Summary

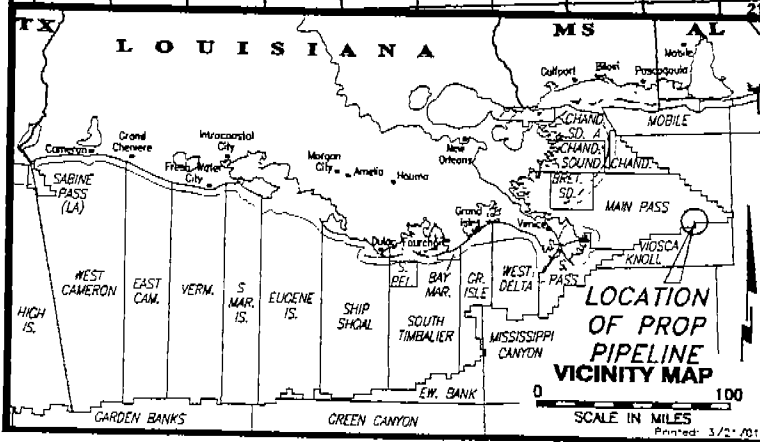
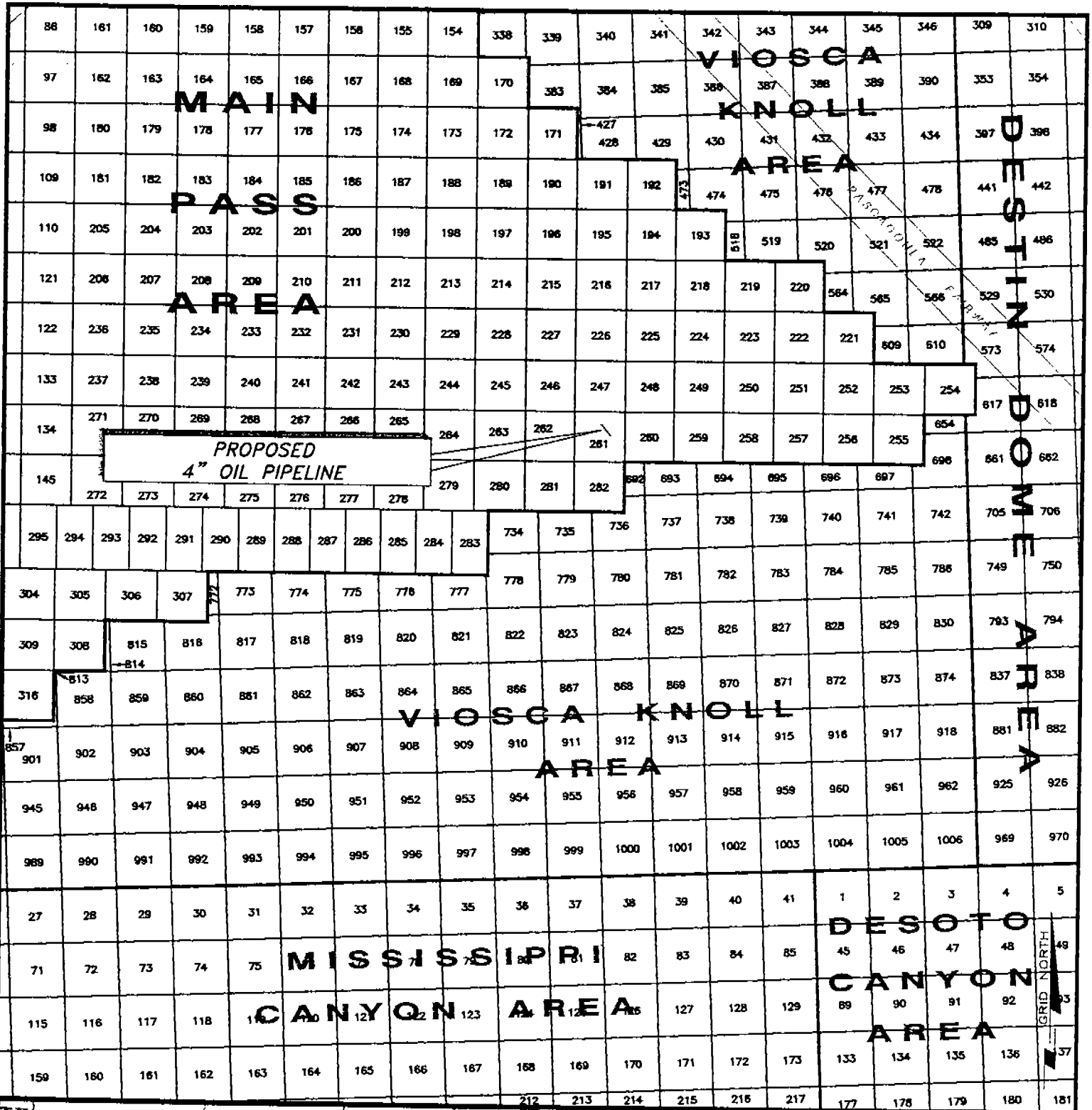
This pipeline and riser will have an MAOP of 2,220 psig.

X. Design Standard:

The design of the proposed pipeline is in accordance with Title 30 CFR, Part 250, Subparts H and J.

XI. Construction Information:

A) Anticipated Start Date:	July 9, 2001
B) Method of Construction:	Lay Barge
C) Method of Burial:	N/A
D) Time Required to Lay Pipe:	2 Days
E) Time Required to Complete the Project:	9 Days



Williams WILLIAMS OIL GATHERING, L.L.C.

PROPOSED 4" OIL PIPELINE
 BLK 261-PROP "JP" PLTFM TO BLK 261-HOT TAP INTO 8" MAIN PASS AREA GULF OF MEXICO

JOHN E. CHANCE & ASSOCIATES, INC.

GEODETIC DATUM: NAD 1927
 PROJECTION: LOUISIANA SOUTH
 GRID UNITS: US SURVEY FEET

SCALE IN FEET 0 40,000'

Job No.: 00-3923 Date: 03/21/01 Drwn: MGK Chart: Of: 1 2

Dwgfile: H:\2000\003923\CAD\MARINE\3923COVR (B)

MP247

MP248

MP261
OCS-G-13035
DEVON, VASTAR

MP260

46+27.23
Hot-Tap into existing 8"
X= 3,026,712.20'
Y= 259,645.50'
Lat. 29° 20' 27.458"N
Lon. 88° 06' 38.284"W

08+60.70
Pipeline Crossing
X= 3,029,062.85'
Y= 256,702.50'
Lat. 29° 19' 57.679"N
Lon. 88° 06' 12.673"W

00+00.00
Prop "JP" Pltfm
X= 3,029,600.00'
Y= 256,029.99'
Lat. 29° 19' 50.874"N
Lon. 88° 06' 06.821"W

TOTAL LENGTH= 4,627.23' = 0.88 MI.

PROPOSED
4" OIL PIPELINE

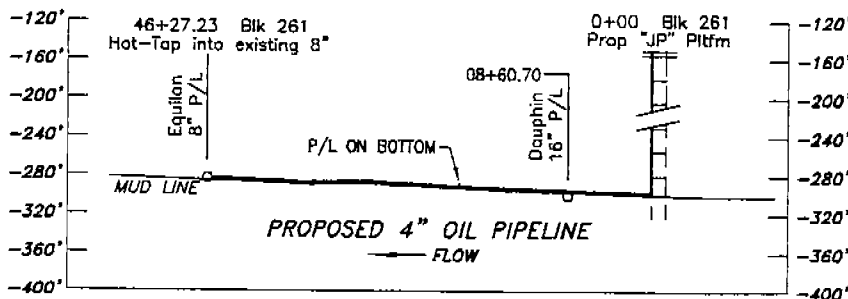
Prop "JP" Pltfm

PLAN

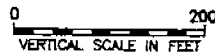


DESIGN CHARACTERISTICS OF THIS PIPELINE ARE IN COMPLIANCE WITH APPLICABLE REGULATIONS.

AREA ENGINEER



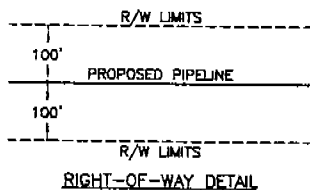
PROFILE



THE RIGHT OF WAY OF THE PROPOSED PIPELINE IS ACCURATELY REPRESENTED.

STATE OF LOUISIANA
LIONEL J. CORMIER
REG. No. 4401
REGISTERED PROFESSIONAL LAND SURVEYOR

Lionel J. Cormier
REG. PROFESSIONAL LAND SURVEYOR NO. 4401
STATE OF LOUISIANA



WILLIAMS OIL GATHERING, L.L.C.

PROPOSED 4" OIL PIPELINE

BLK 261-PROP "JP" PLTFM TO BLK 261-HOT TAP INTO 8"
MAIN PASS AREA
GULF OF MEXICO

JOHN E. CHANCE & ASSOCIATES, INC.

GEODETIC DATUM: NAD 1927
PROJECTION: LOUISIANA SOUTH
GRID UNITS: US SURVEY FEET

SCALE AS SHOWN

Job No.: 00-3923

Date: 03/21/01

Drwn: MCK

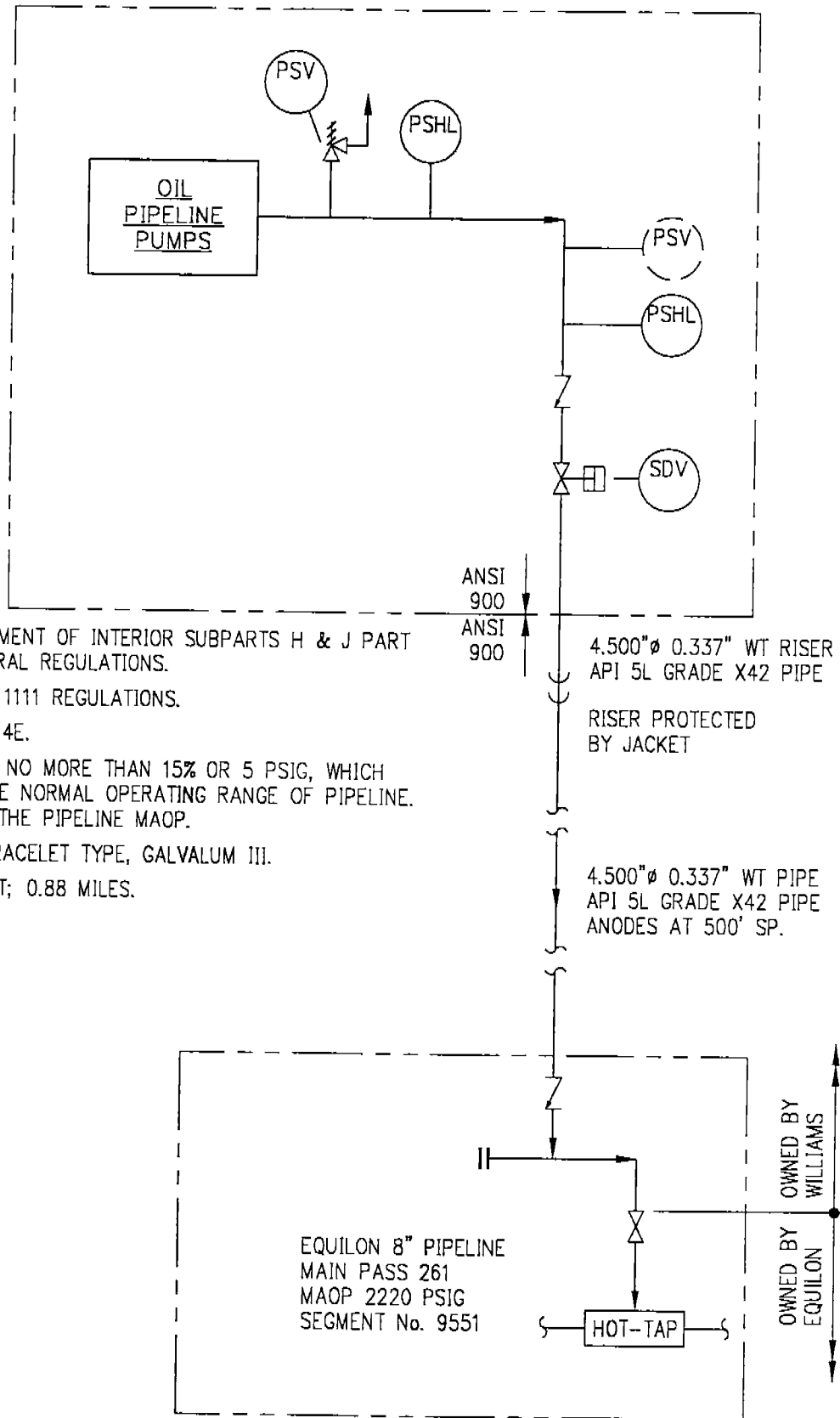
Chart: Of:

Dwg/Rev: H:\2000\003923\CAD\MARINE\003923PP (B)

2 2

Printed: 3/21/01

WILLIAMS OIL GATHERING, LLC
 MAIN PASS 261 "JP"
 PRODUCTION PLATFORM
 OCS-G-13035



NOTES

1. THIS PIPELINE COMPLIES WITH DEPARTMENT OF INTERIOR SUBPARTS H & J PART 250, TITLE 30, OF THE CODE OF FEDERAL REGULATIONS.
2. THIS PIPELINE COMPLIES WITH API RP 1111 REGULATIONS.
3. ALL FACILITIES COMPLY WITH API RP 14E.
4. PSH AND PSL SENSORS SHALL BE SET NO MORE THAN 15% OR 5 PSIG, WHICH EVER IS GREATER, ABOVE & BELOW THE NORMAL OPERATING RANGE OF PIPELINE. THE PSH SETTING SHALL NOT EXCEED THE PIPELINE MAOP.
5. ANODES WILL BE ALUMINUM, 30 LB. BRACELET TYPE, GALVALUM III.
6. TOTAL PIPELINE LENGTHS = 4,627 FEET; 0.88 MILES.
7. PIPELINE MAOP = 2220 PSIG.

EQUILON
 MAIN PASS 261
 SUBSEA TIE-IN
 SEGMENT No. 9551

PINNACLE ENGINEERING, INC.
 HOUSTON, TEXAS

WILLIAMS OIL GATHERING, LLC

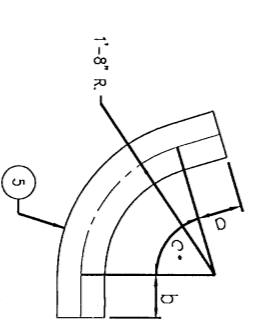
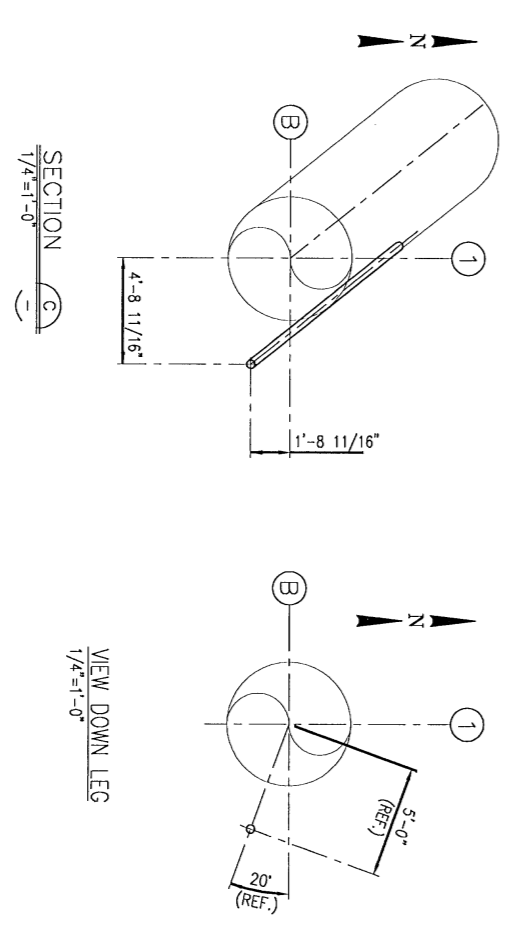
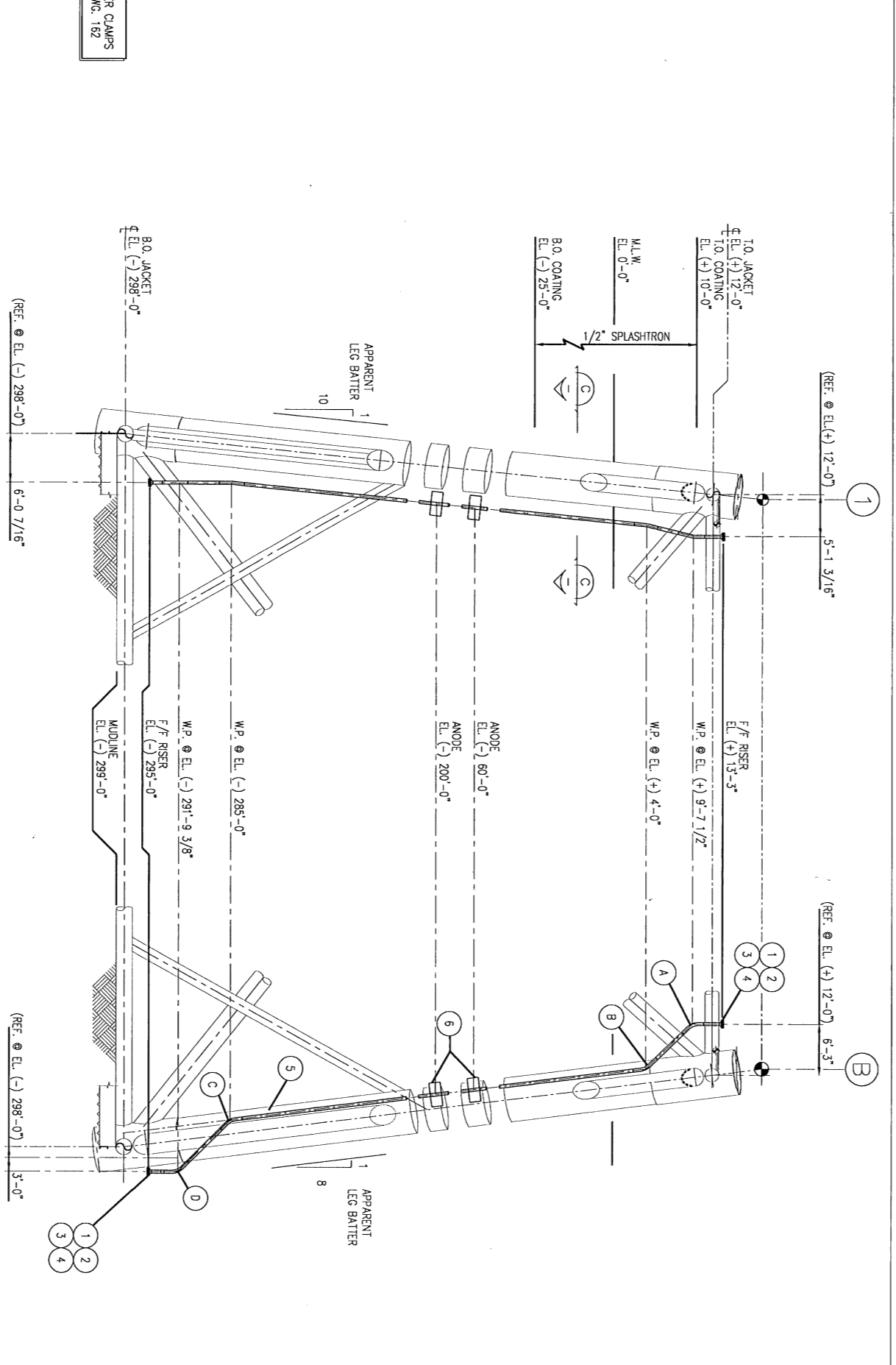
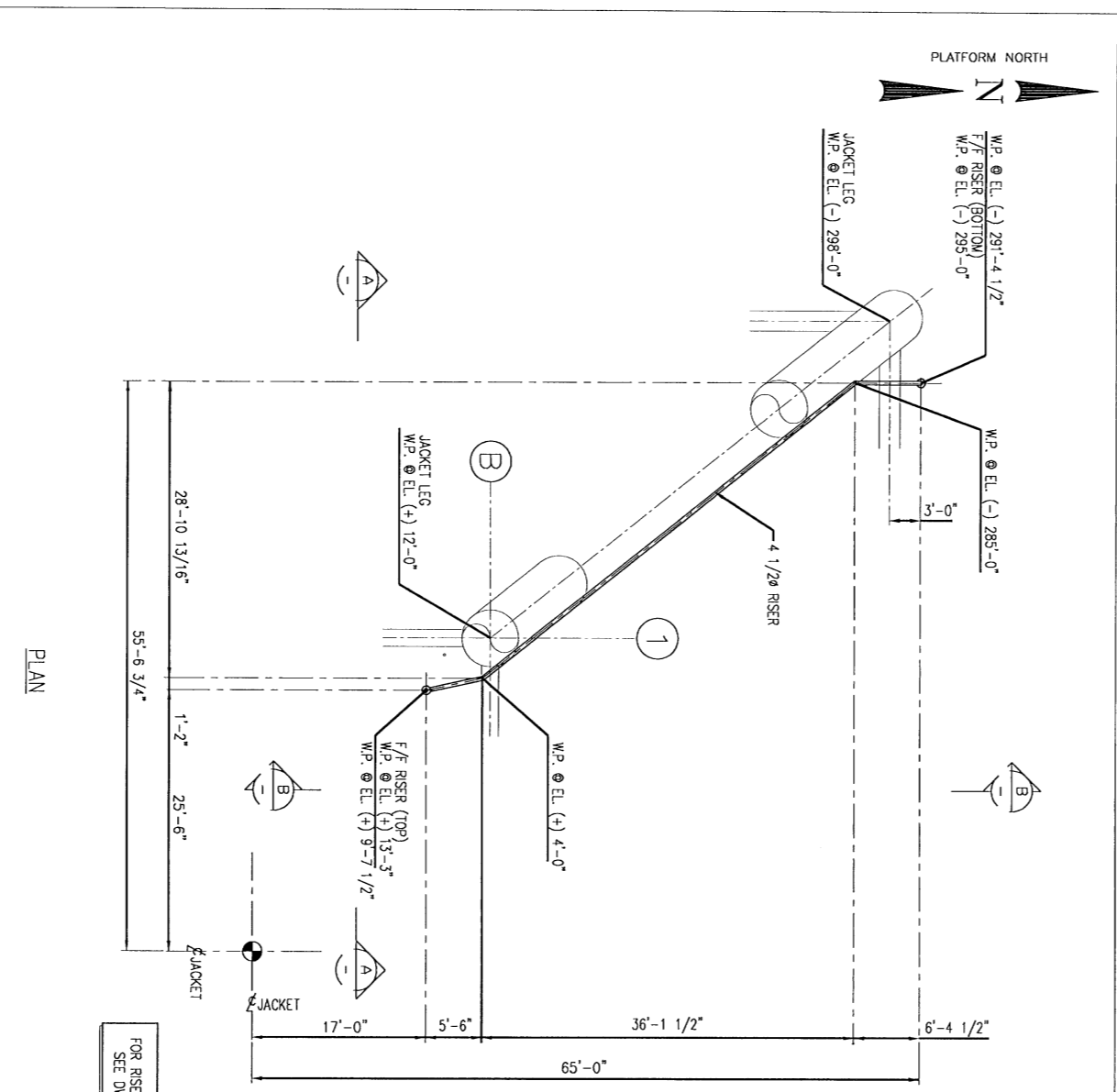
MAIN PASS 261 "JP" TO
 MAIN PASS 261 EQUILON 8" PIPELINE

SCHEMATIC FOR 4.500" O.D. OIL PIPELINE

JOB NO. 490704

DWG NO. 901

REV. 0



ITEM	Q *	B *	C
A	1'-0"	1'-0"	45
B	1'-0"	1'-0"	36.42
C	1'-0"	1'-0"	36.42
D	1'-0"	1'-0"	45

* SEE NOTE 7

ITEM NO	DESCRIPTION	QUANTITY
1	2 4"-5008 RFL W/ F.C.	
2	2 4"-5008 RFL BEND F.L.C. W/ 1" HD AND FLUC	
3	16 1 1/8" x 7" STUD BOLTS W/ NUTS	
4	2 4"-5008 RFL TYP R CASSET	
5	20 4 1/2" x 33.55 SMLS PIPE X-42	
6	2 ANODE CALCIUM II FOR 4" PIPE	

- NOTES:
- FOR GENERAL NOTES, SEE Dwg. 01.
 - RESIST TO BE PAINTED WITH AN ANTI-RUST PAINT.
 - ANODES TO BE BRONZED-TYPE CALCIUM II OR EQUAL. ANODES TO BE SUPPLIED BY COMPANY AND INSTALLED BY FABRICATOR.
 - HYPOTEST ASSET TO 3000 PSI FOR 8 HOURS. PRESSURE SHALL HOLD ON RESERVE THE LAST 2 HOURS.
 - FABRICATOR MAY EXTEND JOINT LENGTHS TO REDUCE NUMBER OF WELDS.

NO.	ISSUED FOR CONSTRUCTION	DATE	BY	CHKD	APP'D	DESIGN REF. NO.
0	ISSUED FOR MATERIAL ORDER	02/09/01	LD	WCK	LD	WILLIAMS

ENGINEER: WCK DATE: 02/09/01
 CHECKED: LD DATE: 02/09/01
 APPROVED: WCK DATE: 02/09/01
 SCALE: 1/8" = 1'-0"
 SHEET: 1 OF 1

PARAGON
 ENGINEERING SERVICES
 HOUSTON, TEXAS

WILLIAMS ENERGY SERVICES
 WP 281-02 CANYON STATION
 4" EQUON RISER
 DRAWING NO. 88-2365-510-09-161
 REV. 0

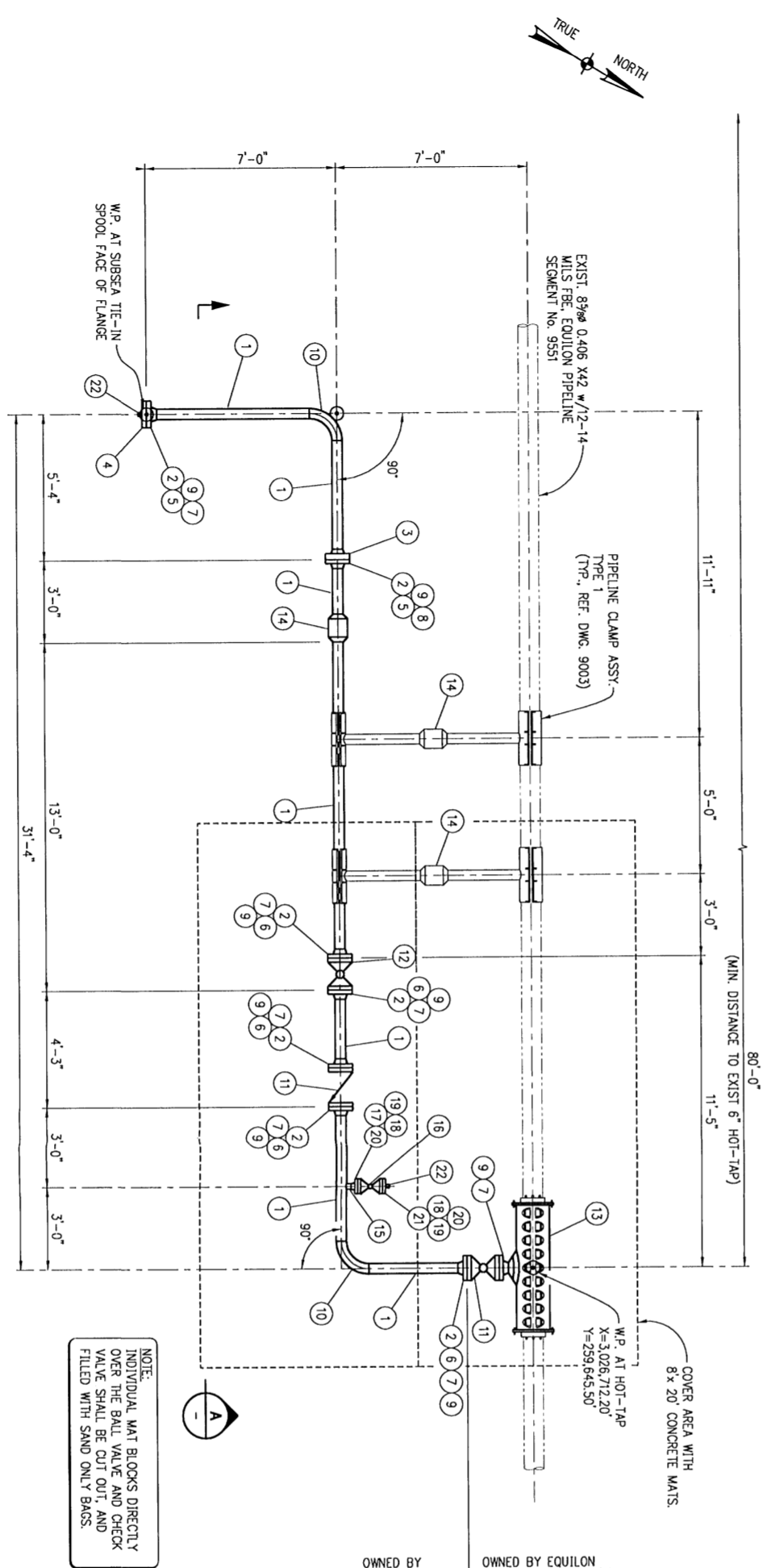
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 DATE: 08-08-2001

NOTES

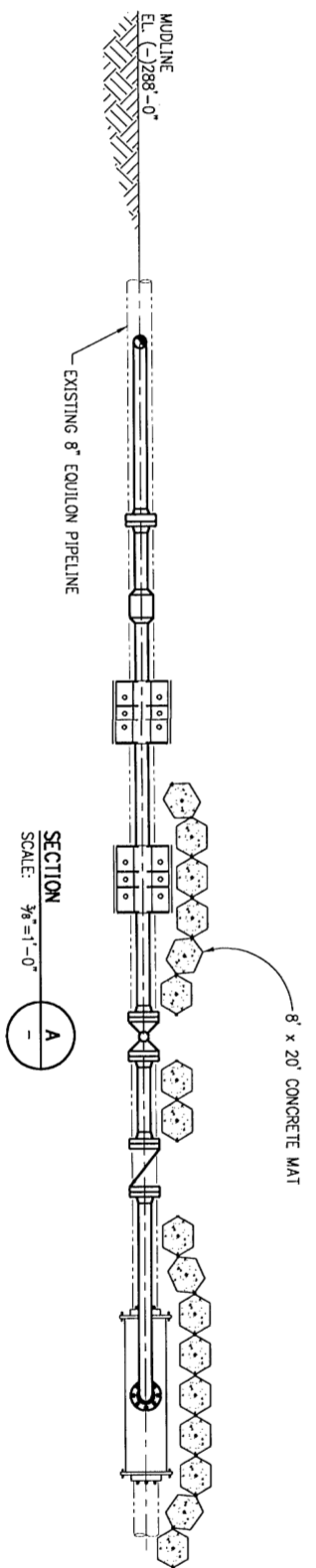
NO.	DATE	ISSUED FOR REVISION/REVISION	BY	APP'D
A				

PINNACLE ENGINEERING, INC.
HOUSTON, TEXAS

OWNER BY	REVISION	DATE	BY	APP'D
WILLIAMS OIL GATHERING, LLC	4" PIPELINE	1-3-01		
DESIGNED BY	SCALE	DATE	BY	APP'D
LOREN FOWLER	SCALE: 1/8"=1'-0"	03/22/01		



PLAN
4" HOT-TAP ASSEMBLY AT MP 261
SCALE: 1/8"=1'-0"



SECTION
SCALE: 1/8"=1'-0"

NOTE: INDIVIDUAL WAT BLOBS DIRECTLY UNDER VALVE SHALL BE CUT OUT AND FILLED WITH SAND ONLY BARS.

MATERIAL SUMMARY

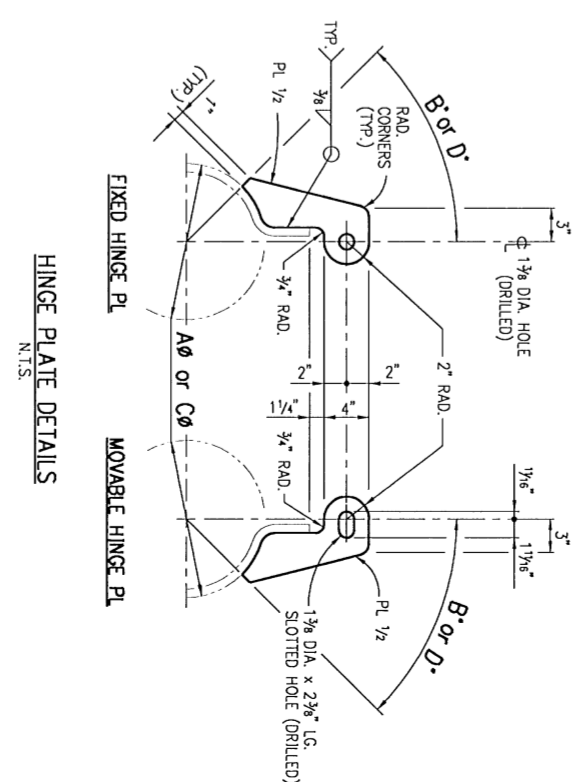
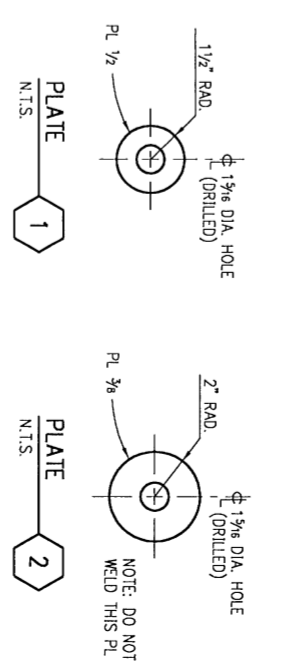
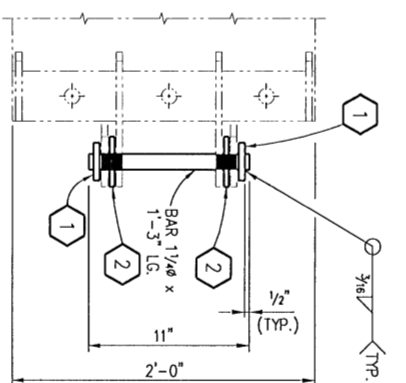
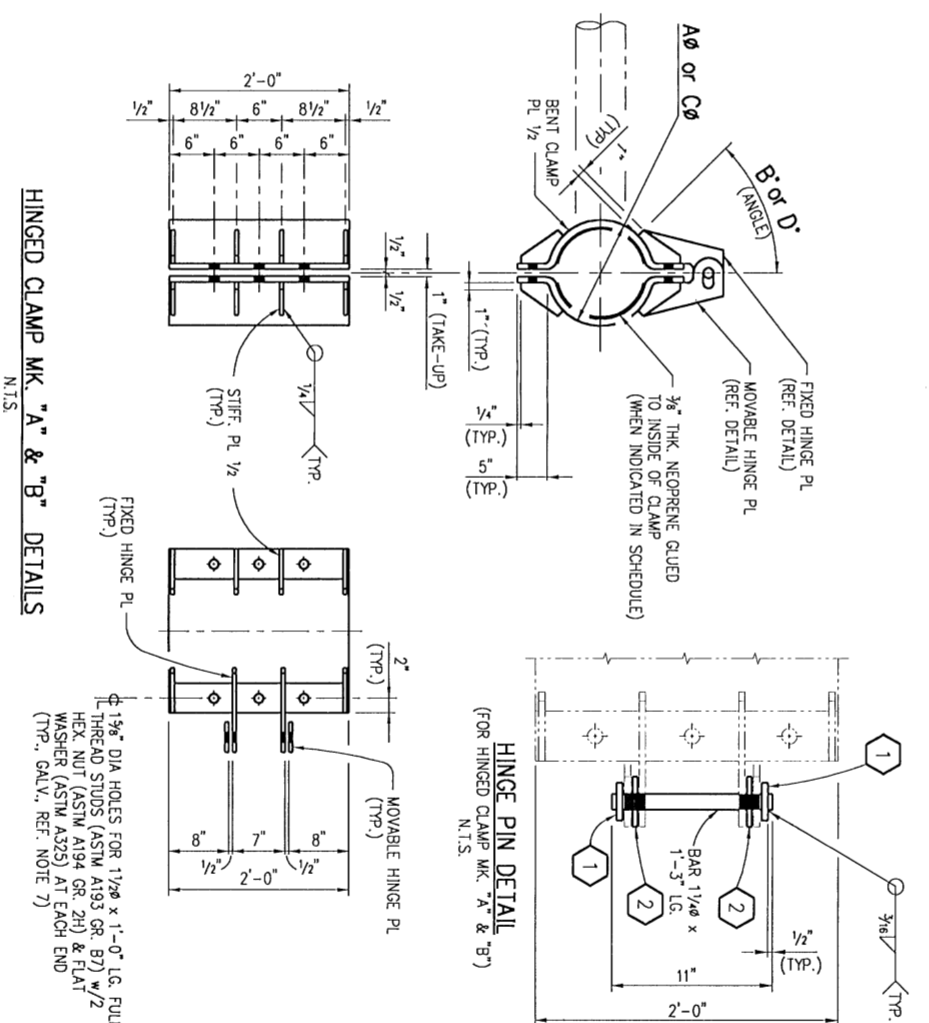
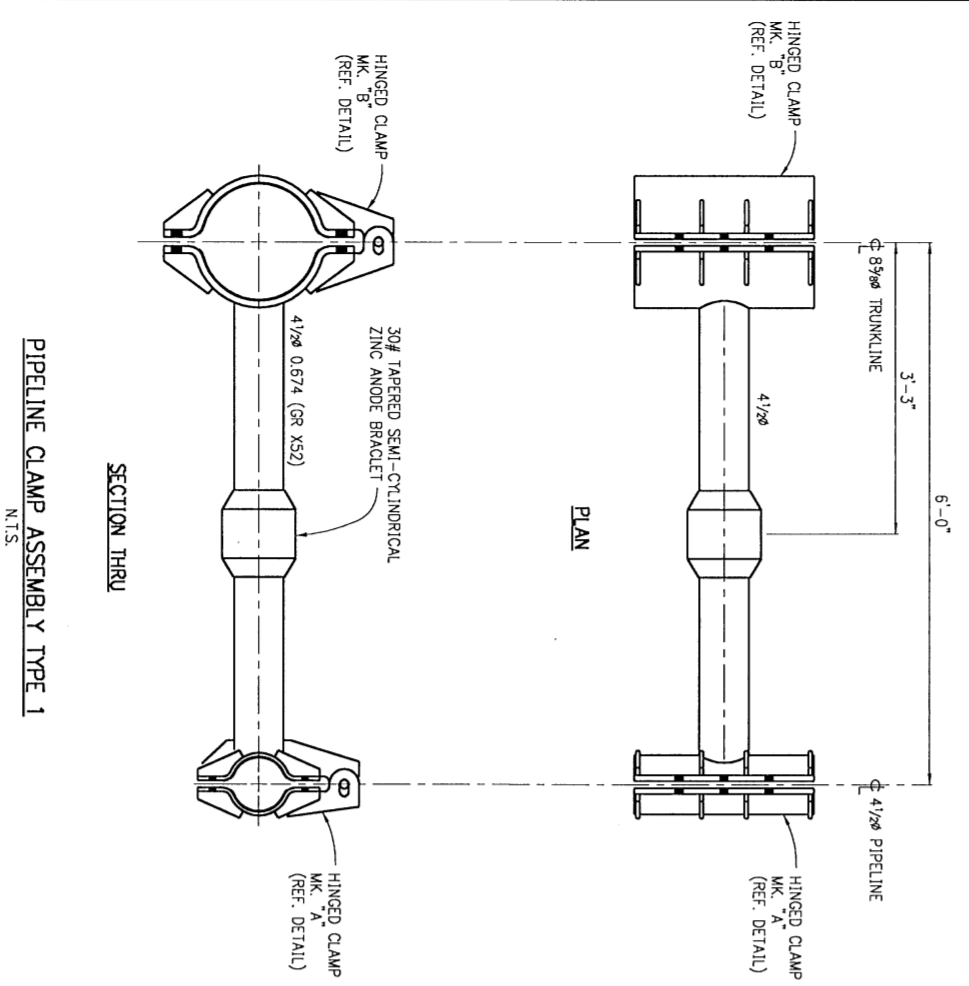
ITEM	QTY	DESCRIPTION
1	62 LF	PIPE 4" OD 0.315 WT. 30# ERW SEAMLESS COATED
2	7	FLANGE, 4", 3M RIL, ANSI 900, B1W 0.317 WT. OR, KXZ PIPE
3	ONE	ANSI B16.5, ASTM A105
4	ONE	ANSI B16.5, ASTM A105
5	ONE	CENTER DRILL & TAP FOR 1" NPT
6	40	BRASS BOLT 3/4" DIA. X 1'-0" LG. STUD ASTM A193 OR B7, W/ (2) ASTM A194 OR 2# HT NUTS, W/ 2# COATED, ASSUMED & MODELED 7" 800 RIL
7	8	GASKET, 4", ANSI 900, OVAL RING, R-37, 316 SS
8	ONE	INSULATING CASSET KIT, 4", ANSI 900, PROTEK
9	ONE	PROTECTOR & FLANGE, ADVANCE, ANSI 900, 2" INJECTION
10	2	ELL, WELD, 4", 30, 80 DEGREE, X-516, ASTM A234, ANSI B16.9, W/8
11	ONE	VALVE, 4" CHECK, WEATHERLY THROUGH CONDUIT, ANSI 900 RIL X RIL SWING TYPE, LOCK OPEN DEVICE, W/ 70" TYPE QAMV SIBERS SERVICE
12	2	WANG, 4", BALL CHECKER, TYP. P/N: ANSI 900, RIL X RIL
13	ONE	HORIZONTAL 4" 4", ANSI 900, 8IG, 8IG, 8IG MANGNE SYSTEMS, INC.
14	3	WANG, 3/4" HARBOR BRACKET FOR 4" PIPE, CALVALUM III
15	ONE	WOL, 2" 4", X-516, W/8, ASTM A234, ANSI B16.9
16	ONE	VALVE, 2" BALL CHECKER, TYP. P/N: ANSI 900, RIL X RIL
17	ONE	FLANGE, 2", 3M RIL, ANSI 900, B1W 0.218 WT. OR, KXZ PIPE, ANSI B16.5, ASTM A105
18	2	GASKET, 2", ANSI 900, OVAL RING, R-23, 316 SS
19	16	BOLT, 1/2" DIA. X 0.75" LG. STUD ASTM A193 OR B7, W/ (2) ASTM A194 OR 2# HT NUTS, W/ 2# COATED, ASSUMED & MODELED 7" 800 RIL
20	2	PROTECTOR, 2" FLANGE, ADVANCE, ANSI 900, 2" INJECTION
21	ONE	FLANGE, 2", 3M RIL, ANSI 900, ANSI B16.5, ASTM A105
22	2	SOLE PLEED BESEER, 1" W/PT. 6000, ASTM A105

- GENERAL NOTES:**
- ALL WELDING AND MATERIAL SHALL BE IN ACCORDANCE WITH ANSI, API 1104
 - DESIGN SHALL MEET OR EXCEED D.O.T. REGULATIONS 49 CFR, PART 193, AND ANSI B31.4
 - DESIGN PRESSURE: 2220 PSIG. DESIGN FACTOR 0.8. DESIGN
 - ALL PIPING FABRICATION SHALL BE 100% X-RAYED IN ACCORDANCE WITH API STANDARD 1104.
 - COMPRESSIVE STRENGTH SHALL BE REPORTED AS PER EQUATION S08524 & S08525.
 - HYPERTENSILE TEST SHALL BE REPORTED AS PER EQUATION S08524 & S08525.
 - HYPERTENSILE TEST IN THE ASSEMBLY TO 1330 PSIG MINIMUM FOR 8 HOURS. VALUES TO BE REPORTED AS PER EQUATION S08524 & S08525.
 - SUPPORT SADDLES SHALL BE CHECK STABILIZED COVER SADDLES SHALL BE SAND ONLY.
 - 1" PART CURRENT TO 3 PARTS SAND (BY WEIGHT) WITH WORKING ACTION
 - BASES SHALL BE MADE OF CLOSET WORK MATERIAL WITH WORKING ACTION
 - HYDROTEST: ALL SHALL BE PROGRESS TO A MINIMUM OF 1330 PSI AND HOLD FOR A PERIOD OF 8 HOURS. THE PRESSURE SHALL HOLD OR RISE OVER THE LAST TWO HOURS.
 - SPECIFICATIONS FOR THE FABRICATION AND INSTALLATION OF MAIN PASS AREA PIPING BY WILLIAMS ENERGY SERVICES.
 - INSTALLATION CONNECTION SHALL SUPPORT ALL MATERIALS UNDER MAIN PASS AREA PIPING.
 - HOT-TAP FITTING MANUFS SHALL BE PRESURE TESTED PER ONE (1) HOUR PRIOR TO TAPPING.
 - CONCRETE SHALL BE CONCRETE WITH SAND-AGGREGATE RATIO TO ASSURE ADEQUATE COMPRESSIVE STRENGTH. THE MIXTURE SHALL BE REMOVED TO PROVIDE OVER ACCESS TO THE VALVES.
 - CONCRETE MATS SHALL HAVE NON-ABRASIVE FINES ON VALVE SIDE.

WILLIAMS OIL GATHERING, LLC
4" PIPELINE
HOT-TAP ASSEMBLY DETAILS

PIPELINE CLAMP ASSEMBLY SCHEDULE

TYPE	NO.	PIPELINE REQ'D. DIAMETER	HINGED CLAMP MK. "A"		TRUNKLINE NEOPENRE DIAMETER		HINGED CLAMP MK. "B"		FOR LOCATION
			"A"	"B"	"C"	"D"	NEOPENRE	NEOPENRE	
	1	4 1/2"	8 1/2"	70"	YES	8 1/2"	10 1/2"	85"	YES
	2	4 1/2"	8 1/2"	70"	YES	8 1/2"	10 1/2"	85"	YES



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- NOTES
1. FABRICATOR SHALL CHECK CLAMP HINGE FOR BINDING AFTER FABRICATION.
 2. WITH THE CONTRACT AND SPECIFICATIONS SHALL BE IN ACCORDANCE.
 3. RISER CLAMPS SHALL BE PAINTED IN ACCORDANCE WITH COMPANY SPECIFICATIONS.
 4. ALL PIPE SHALL BE 401 1/2, OR 3 OR 8 OR EQUAL.

5. ALL WELDING AND FABRICATION TO BE IN ACCORDANCE WITH AWS D11.1 UNLESS NOTED OTHERWISE.
6. ALL STRUCTURAL STEEL SHALL BE ASTM A56 UNLESS NOTED OTHERWISE.
7. ALL STUFS USED IN CLAMPS SHALL BE DOUBLE NUTTED ON BOTH ENDS.

NO.	A	DATE	ISSUED FOR REVISION/DESCRIPTION	BY	DATE

PINNACLE ENGINEERING, INC.
HOUSTON, TEXAS

APPROVAL
Checked By: _____
Drawn By: _____
Accepted By: _____

WILLIAMS FIELD SERVICES
DRAFT COPY COMPANY, L.P.
4" PIPELINE
MAIN DASH 201 "A" TO 8" EQUILON PIPELINE
PIPELINE TIE-IN CLAMP DETAILS
JOB NO. 480704 SCALE: NOTED Dwg. No. 9003 REV. A