Mr. Scott H. Cornwell BHP Billiton Petroleum (GOM) Inc. 1360 Post Oak Boulevard Suite 150 Houston, Texas 77056-3020

Dear Mr. Cornwell:

Reference is made to the following application that has been reviewed by the Minerals Management Service:

Application Type: New Right-of-Way Pipeline

Application Date: August 3, 2005

Supplemental Data Date(s): August 18, 2005, November 1, 2005, November 18,

2005, January 18, 2006

Work Description: Create 200-foot wide right-of-way and install, operate, and maintain the following:

One 6.625-inch O.D. pipeline, 1.32 miles long, to transport gas and condensate from West Cameron Area Block 96 "A" to a 36-inch O.D. subsea tie-in West Cameron Block Area 95.

Assigned Right-of-Way Number: OCS-G26924 Assigned Segment Number: 15284

Pursuant to 43 U.S.C. 1334(e) and 30 CFR 250.1000(d), your application is hereby approved.

Your request to use navigational positioning equipment to comply with Notice to Lessees and Operators No. 98-20, Section IV.B, is hereby approved.

Assigned MAOP (psi): 1349

MAOP Determination: Subsea Segment

Please be reminded that, in accordance with 30 CFR 250.1008(a), you must notify the Regional Supervisor at least 48 hours prior to commencing the installation or relocation of a pipeline or conducting a pressure test on the pipeline. Commencement notification(s) should be faxed to (504) 736-2408.

In accordance with 30 CFR 250.1008 (b), you are reminded to submit a report to the Regional Supervisor within 90 days after completion of any pipeline construction. Also in accordance with a Letter to Lessees dated April 18, 1991, a copy of the as-built plat(s) must be submitted to the National Ocean Service, N/CS26 Room 7317, 1315 E-W Highway, Silver Spring, MD 20910-3282

Sincerely,

a.a.

Donald C. Howard Regional Supervisor Field Operations

bcc: 1502-01 Segment No. 15284, ROW OCS-G26924 (MS 5232)

1502-01 ROW OCS-G26924 (Microfilm) (MS 5033) MS 5271 Lake Charles District $\mbox{w/flow}$ schematic

MS 5232 Cartography

Komiskey, Elizabeth

From:

Valerie Land [Valerie.Land@jccteam.com]

Sent:

Monday, February 13, 2006 2:11 PM

To:

Komiskey, Elizabeth

Subject:

ROW OCS-G 26924, Segment No. 15284, BHP Billiton Petroleum

Importance: High

Attachments: BHP.pdf

Please find attached to this e-mail a scanned copy of the signed letter of no-objection from Stingray Pipeline for our tie-in to their pipeline.

-----Original Message-----

From: Steve.Merritt@enbridge.com [mailto:Steve.Merritt@enbridge.com]

Sent: Monday, February 13, 2006 2:05 PM

To: Valerie Land **Subject:** Fw: BHP

Valerie,

Pls acknowledge if you receive this email.

I believe this was never sent and that is why you have never seen this before.

Steve Merritt

Director

Commercial Development - Western GOM

Enbridge Offshore Pipelines, L.L.C.

1100 Louisiana, Suite 3300

Houston, TX 77002 Tel: 832.214.5740 Fax: 713.821.3313 Cell: 713.823.3704

Steve.Merritt@Enbridge.com



---- Forwarded by Steve Merritt/US/Enbridge on 02/13/2006 02:06 PM ----

Rebecca E Ratkiewicz/US/Enbridge

To Steve Merritt/US/Enbridge@LPL

cc

02/13/2006 02:02 PM

Subject BHP

Rebecca Ratkiewicz

Enbridge Energy Company, Inc.

1100 Louisiana, Suite 3300

Houston, Texas 77002

Phone: 713/821-2082

Visit our new website at www.jccteam.com



BHP Billiton Petroleum (GOM) inc. 1360 Post Cak Soulevard Sette 150 Houston Texas 77056 3070 USA Fedex Tracking Nov66290282747813 961 2400

August 9, 2005

Stingray Pipeline Company, L.L.C. 1100 Louisiana; Suite 3300 Houston, Texas 77002

Gentlemen:

This letter serves as notification that BHP Billiton Petroleum (Americas) Inc. is in the process of submitting an application to Minerals Management Service for the installation of a 6" gas and condensate pipeline to be installed from Platform "A" in West Cameron Block 96 to a subsea tie-in point on your existing 36" pipeline (Segment No. 3507) in West Cameron Block 95.

In accordance with MMS requirements, we are enclosing a complete copy of the subject application for your review.

Please indicate your consent to this proposed crossing by signing this letter in the space provided below and returning a signed copy to the attention of our regulatory representative, Valerie Land, J. Connor Consulting, Inc., 16225 Park Ten Place, Suite 700, Houston, Texas 77084.

Your cooperation in this matter would be greatly appreciated.

Sincerely,

Ron D. Campbell

Regulatory & Administrative Manager

for O. Canpbul Led

RDC:VDL

CONSENT GRANTED THIS 16 DAY OF August 2005.

By: allan M. Echneider

Title: Vice Chariman - Operations

5Tingray Pipeline Company, L.L.C.

Komiskey, Elizabeth

From:

Valerie Land [Valerie.Land@jccteam.com]

Sent:

Wednesday, January 18, 2006 3:26 PM

To:

Komiskey, Elizabeth

Subject:

Segment No. 15284, ROW OCS-G 26924

Importance: High

Attachments: DOC060118-018.pdf

Elizabeth,

As discussed earlier today, please find attached the Fed-x proof of delivery for the letter going to Newfield Exploration Company. Additionally, in this same attachment, please find the detail of the subsea tie-in. In the upper left hand corner it shows the new 6" line crossing over Newfield's 6" existing pipeline (Segment No. 15105).

I talked to Ron Campbell at BHP regarding how soon he needed the approval for this pipeline. He told me that it can wait until Friday, no problem.

If you need anything further, please contact me at (281) 578-3388 or by my e-mail address valerie.land@jccteam.com.

Sincerely,

Valerie Land

Regulatory Consultant J. Connor Consulting, Inc. 16225 Park Ten Boulevard Houston, Texas 77084 (281) 578-3388 Office (281) 578-8895 Fax (281) 731-2584 Cell

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Ship	Track	Manage My Account	International Tools

Track Shipments **Detailed Results** Printable Version

(7) Quick Help

Tracking number Signed for by

662902827456 **D.OLIVER**

Reference

02100/WC96/APPL.ROW P/L

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Ship date **Delivery date**

Aug 9, 2005 Aug 10, 2005 9:01 AM Destination Service type HOUSTON, TX FedEx 2Day Service

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Details

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HOUSTON, TX

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01/18/2006

Dear Customer:

The following is the proof of delivery you requested with the tracking number 662902827456.

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Status:

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Aug 10, 2005 09:01

Signed for by:

D.OLIVER

Service type:

FedEx 2Day Service

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Tracking number:

662902827456

Ship date:

Aug 9, 2005

Recipient:

HOUSTON, TX US

Shipper:

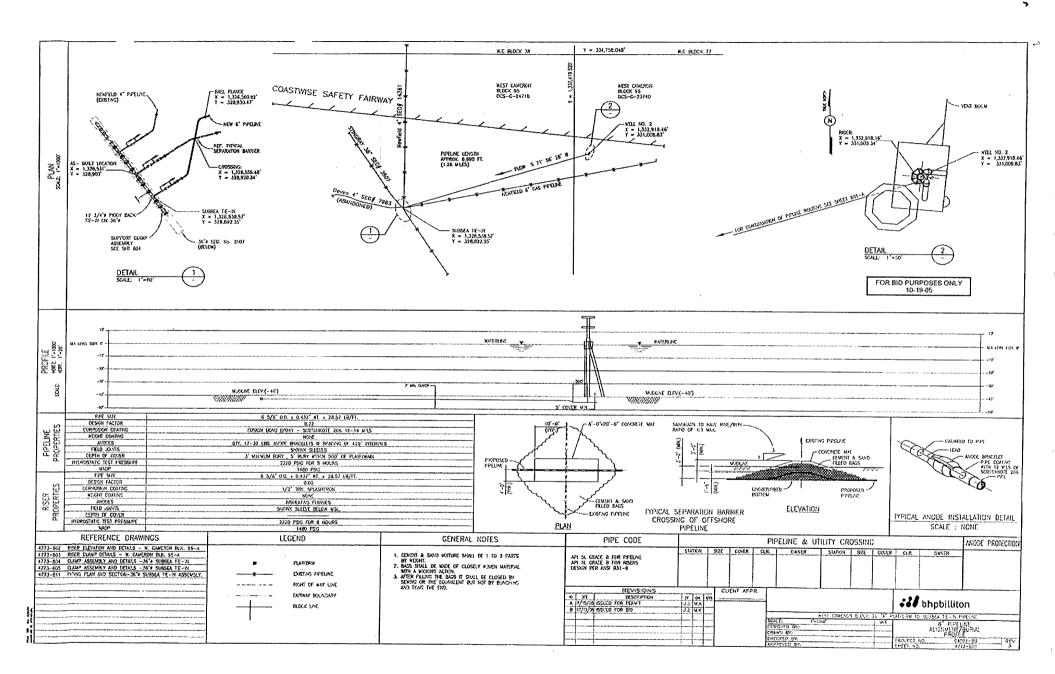
HOUSTON, TX US

Reference

02100/WC96/APPL.ROW P/L

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J. Connor Consulting, Inc.



DOCUMENT TRANSMITTAL

TO:	Minerals Man 1201 Elmwoo New Orleans,	od Park 1	Boulevard	DATE: November 18, 2005	
ATTI	ENTION:		izabeth Komiskey ne Section		
REGARDING: Application for 6" Gas and Condensate ROW Pipeline Originating at WC96, "A" and Terminating at a SSTI in WC95 BHP Billiton Petroleum (Americas), Inc.				•	
(\checkmark) We are sending you the					
NO. OF COPIES		IES	DESCRIPTION		
	11		Application for 6" Gas and Condensate	ROW Pipeline	
THESE ARE FOR THE PURPOSE INDICATED BELOW:					
() Fo	or Approval		() For Revision as Need	led	
(X) F	or Further Hand	lling	() For Execution		
() Fo	r Your Files and	d Use	() Return to Sender		
REMARKS: Per your request, please find the original application to install a 6" gas/condensate line in the West Cameron Area. If you need anything further, please contact me at (281) 578-3388 or by e-mail at valerie.land@jccteam.com.					

Valerie Land

Minerals Management Serv

JAN 0 9 2006

Office of Field Operations Pipeline Section



August 3, 2005

BHP Billiton Petroleum (Americas) Inc. 1360 Post Oak Boulevard Suite 150 Houston Texas 77056 3020 USA Tel_713_961 8500 Fax 713_961_8400 www.bhpbilliton.com

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

Pipeline Unit Supervisor

RE:

Application for 6" Gas and Condensate Right-of-Way Pipeline To Be Installed In and/or Through Blocks 96 and 95, West Cameron 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 (43 U.S.C. 1331 et seq, P.L. 212, 67 Stat. 462), as amended (P.L. 95-372, 92 Stat. 629), and in compliance with the regulations contained in Title 30 CFR, Part 250, Subpart J, BHP Billiton Petroleum (Americas) Inc. (BHPB) 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 6" gas and condensate right-of-way pipeline to be installed in and/or through Blocks 96 and 95, West Cameron Area, Offshore, Louisiana. BHPB agrees that said right-of-way, if approved, will be subject to the terms and conditions of said regulations.

The proposed 6" pipeline will originate at Platform "A" in West Cameron Block 96 (RUE No. OCS-G 23664) and proceed in a southwesterly direction approximately 6,984 feet (1.32 miles) to a subsea tie-in point on Stingray's existing 36" gas pipeline (Segment No. 3507).

The subject pipeline has a calculated worst case discharge of less than 1000 barrels, therefore, Oil Spill Financial Responsibility coverage is not required.

BHPB will review our Regional Oil Spill Response Plan to determine if installation of the subject right-of-way pipeline affects the current worst case discharge, and, if applicable, will modify the plan to include the pipeline at the next scheduled update.

Installation of the proposed pipeline will be accomplished by utilizing a typical lay/bury barge. The pipeline will be jetted to a minimum of 3 feet below the mudline. There are no pipeline crossings along the proposed route.

Minerals Management Service 6" Gas/Condensate ROW Pipeline Blocks 96 and 95, West Cameron Area August 3, 2005 Page Two

BHPB 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, BHPB will comply with the recommended avoidance criteria of the magnetic anomalies identified in the Fugro Geoservices, Inc. Pipeline Pre-Lay Survey Report along the proposed pipeline route.

BHPB anticipates commencing installation on approximately September 15, 2005, with an overall completion of project time being estimated at eight (8) days. The proposed construction operations will be supported by a crewboat and tug, each making approximately four (4) trips per week, respectively, from an onshore facility located in Cameron, Louisiana.

BHP Billiton Petroleum (Americas) Inc. will be the operator of the subject right-of-way pipeline.

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.

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 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.

Minerals Management Service 6" Gas/Condensate ROW Pipeline Blocks 96 and 95, West Cameron Area August 3, 2005 Page Three

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.

The risers at the respective platforms will be protected by riser guards or inside the jacket framing.

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 Non-Discrimination in Employment Stipulation
- 2. Designated Oil & Gas Lease Operators and Right-of-Way Holders (Attachment A)
- 3. General Information and Calculations for Design and Construction of 6" Gas and Condensate Pipeline
- 4. Coastal Zone Management Consistency Certification and copy of pipeline application submittal letter to Louisiana DNR, CZM Division
- 5. Certified Pipeline Route Alignment/Burial Profile (Sheet No. 4773-801) with associated Digital Diskette
- 6. Riser Elevation and Details (Sheet No. 4773-802)
- 7. Riser Clamp Details (Sheet No. 4773-803)
- 8. Subsea Tie-In Assembly and Details (Sheet No. 4773-804, 805)
- 9. Pipeline Safety Flow Schematic (Sheet No. 4773-810)
- 10. Subsea Tie-in Assembly, Piping Plan and Section (Sheet No. 4773-811)

Minerals Management Service 6" Gas/Condensate ROW Pipeline Blocks 96 and 95, West Cameron Area August 3, 2005 Page Four

- 11. Shallow Hazard Assessment of Proposed Pipeline Route
- 12. Check in the amount of \$2380.00 covers the application fee of \$2350 plus \$30 for the first year rental on 1.32 miles of right-of-way

Contact on technical points or other information:

Valerie Land
J. Connor Consulting, Inc.
16225 Park Ten Place, Suite 700
Houston, Texas 77084
(281) 578-3388
email address: valerie.land@jccteam.com

BHPB 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. 00362 for a copy of a resolution approved by the Board of Directors authorizing the undersigned to sign for and on behalf of BHP Billiton Petroleum (Americas) Inc. Additionally, the BHP Billiton Petroleum (Americas) Inc. 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,

BHP Billiton Petroleum (Americas) Inc.

Scott H)Cornwell

Attorney-in-Fact

RDC:VDL

Attachments and Enclosures

Minerals Management Service 6" Gas/Condensate ROW Pipeline Blocks 96 and 95, West Cameron Area August 3, 2005 Page Five

cc: Newfield Exploration Company 363 N. Sam Houston Parkway East; Suite 2020 Houston, Texas 77060

> El Paso Production Company 1001 Louisiana Street Houston, Texas 77252-2511

Stingray Pipeline Company, L.L.C. 1100 Louisiana; Suite 3300 Houston, Texas 77002



Minerals Management Service Gulf of Mexico OCS Region 1201 Elmwood Park Boulevard NEW ORLEANS LA 70123-2394 USA

COMPANY NO

3370

VENDOR NO.

DATE OF CHECK

CHECK NUMBER

PAYMENT DOC NUMBER

4010612 08/02/2005

103546-

3030016966

INVOICE NO.	INVOICE DATE	DOCUMENT NO.	REMARKS	NET AMOUNT
3130011419	07/27/2005	072705PERMITFEES		2,380.00

TOTAL

2,380.00

DETACH AND RETAIN FOR YOUR RECORDS ATTACHED BELOW

CHECK # 103546



1360 POST OAK BLVD., SUITE 150 HOUSTON, TX 77056-3020 (713) 961-8500

62-20 CHECK NO.: 103546

DATE

: 08/02/2005

311

VENDOR NO.: 4010612

PAY TO THE ORDER OF

Minerals Management Service Gulf of Mexico OCS Region 1201 Elmwood Park Boulevard NEW ORLEANS LA 70123-2394 USA

\$ \$\$\$\$\$\$\$\$2,380.00

NOT VALID AFTER 90 DAYS

PAY THE

TWO THOUSAND THREE HUNDRED EIGHTY DOLLARS AND ZERO CENTS ONLY

SUM OF

Bank of America, 6000 Feldwood rd Atlanta, GA 30349 U.S.A

RY

103546# #O61112788# 3299788903#

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.).

WEST CAMERON AREA

BLOCK 96

Newfield Exploration Company	OCS-G 23740	Oil & Gas Lease
BLOCK 95		
El Paso Production Company	OCS-G 24710	Oil & Gas Lease
Stingray Pipeline Company, L.L.C.	OCS-G 2122	Right-of-Way
Newfield Exploration Company	OCS-G 25312	Right-o-Way

NONDISCRIMINATION IN EMPLOYMENT

As a condition precedent to the approval of the granting of the subject pipeline right-of-way, the grantee, BHP Billiton Petroleum (Americas) Inc. 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

Data

PIPELINE FROM WEST CAMERON BLOCK 96 TO STINGRAY PIPELINE SUBSEA TIE-IN

Page 1 of 4 7/25/05 04077-03 Rev. 1 By: VK

PIPELINE CALCULATIONS

Pipeline Description

. Length 6,984 feet . Size (O.D) 6.625-inch

. Wall Thickness 0.432-inch (Sch. 80) for

pipeline

0.432-inch (Sch. 80) for

Riser

. Grade API 5L Gr. B
. Bare Weight 28.57 lb/ft

. Protection Coating Type and Thickness Fusion Bond Epoxy,

0.012 to 0.014 inch thick

. Riser Coating: 1/2" thick Splashtron

. Weight coating concrete density and thickness Not Required

Specific Gravity of Pipe 1.83

. Estimated density of fluids based on flow 3.72 lb/cft rate of 30 MMSCFD gas and 300 bpd

condensate at flowing pressure of 1150 psig

. Design Capacity

30 MMSCFD gas; 300 BCPD

. Design Codes ASME B31.8 and 30 CFR

Part 250

. The proposed pipeline will transport production fluids from Block 96A platform to a subsea tie-in in West Cameron Block 95.

2. Cathodic Protection System

The pipeline will be protected by a sacrificial anode system, as described below. The riser clamps below the insulating flanges in the pipeline riser will be insulated from the riser by a neoprene coating installed on the inside of the clamps. Above the insulating flanges, the riser is protected by the platform cathodic protection system.

Pipeline Sacrificial Anodes System

. Type of Anode Galvalum III
. Spacing Interval 425 feet
. Standard Net weight of Unit Anode 32 lbs

. Consumption Rate 12 lbs/amp-year

BASED ON THE FORMULA: $Le_{(p/1)} = 3.82 \times 10^4 \times w^0/DIR$

Page 2 of 4 7/25/05 04077-03 Rev. 1 By: VK

PIPELINE FROM WEST CAMERON BLOCK 96 TO STINGRAY PIPELINE SUBSEA TIE-IN

PIPELINE CALCULATIONS

Where:

Le_{Ip/1)} = Life expectancy (years) w⁰ = Weight of anode unit (lb) D = Diameter of pipe (inches)

I = Separation between anodes (ft)R = Rate of consumption (lbs/amp-year)

The factor 3.82 x 10⁴ in the formula assumes 2% bare area of pipe is exposed due to damage to coating and the current requirement is 5 mA/sq.ft.

$$Le_{(p/1)} = (3.82 \times 10^4) (32)/\{(6.625)(425)(12)\} = 36.18 \text{ years}$$

The calculated life expectancy is equal to 36.18 years. Length of pipeline = 7,050-ft (including construction allowance). Install 18 anodes with an anode at each end of pipeline and the remaining anodes spaced at approx. 425 ft. intervals.

3. Specific Gravity of the Empty Pipe Based on Seawater

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

$$S.G. = \frac{W_p + W_{cor} + W_{conc}}{W_{H20}}$$

Where:

 W_P = Weight of the pipe (lbs/ft) = 28.57 W_{cor} = Weight of corrosion coating (lbs/ft) = 0.182 W_{conc} = Weight of concrete (lbs/ft) = 0.0 W_{H2O} = Weight of displaced seawater (lbs/ft) = 15.70

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

. Density of Pipe	488 lbs/ft ³
. Density of Fusion Bond Epoxy	90 lbs/ft ³
. Density of Concrete	Not Required
. Density of Seawater	65.6 lbs/ft ³
Specific Gravity of Pipeline =	1.83

4. Maximum Allowable Operating Pressure (MAOP) of Riser Pipe

a. Calculations based on Title 30 CFR, Part 250

$$P = \underbrace{2St \ FET}_{D} = 2738 \ psig$$

Page 3 of 4 7/25/05 04077-03 Rev. 1 By: VK

PIPELINE FROM WEST CAMERON BLOCK 96 TO STINGRAY PIPELINE SUBSEA TIE-IN

PIPELINE CALCULATIONS

Where:

P = Design Pressure (psig)

S = Specified Minimum Yield Strength (SMYS), 35,000 psi

t = Nominal Wall Thickness, 0.432" D = Nominal Outside Diameter, 6.625"

F = Design Factor: 0.60

E = Joint Factor: 1.00 for Seamless and ERW Pipe

T = Temp. Derating Factor: 1.00 for Operating Temp. Below 250°F

b. MAOP based on fittings and valves

Fittings and valves to be rated for ANSI 600 # class

Rated working pressure = 1480 psig

c. MAOP based on 80% of hydrostatic test pressure

Hydrostatic test pressure = $1.50 \times 1480 = 2220 \text{ psig}$

$$MAOP = 2220 \times 0.80$$

= 1,776 psig

MAOP of riser is the least of pressures calculated under a, b, and c above.

MAOP of riser = 1480 psig

d. Hydrostatic Test Pressure

Hydrotest pressure = 1.50×1480

= 2220 psig

Stress during hydrotest = PD/2tE

 $= 2220 \times 6.625 / (2 \times 0.432 \times 1)$

= 17,022 psig

95% of yield stress = 33,250 psig > 17,022 psig

Hydrotest riser at 2220 psig for 8 hours minimum.

5. Maximum Allowable Operating Pressure (MAOP) of Pipeline

a. Calculations based on Title 30 CFR, Part 250

$$P = \frac{2St FET}{D} = 3286 psi$$

Page 4 of 4 7/25/05 04077-03 Rev. 1 By: VK

PIPELINE FROM WEST CAMERON BLOCK 96 TO STINGRAY PIPELINE SUBSEA TIE-IN

PIPELINE CALCULATIONS

Where:

P = Design Pressure (psig)

S = Specified Minimum Yield Strength (SMYS), 35,000 psi

t = Nominal Wall Thickness, 0.432" D = Nominal Outside Diameter, 6.625"

F = Design Factor: 0.72

E = Joint Factor: 1.00 for Seamless and ERW Pipe

T = Temp. Derating Factor: 1.00 for Operating Temp. Below 250°F

b. MAOP based on fittings and valves

Fittings & valves to be ANSI 600# class Rated working pressure = 1480 psig

c. MAOP based on 80% of hydrostatic test pressure

Hydrostatic test pressure = 1.50 x 1480 = 2220 psig

 $MAOP = 2220 \times 0.80$ = 1,776 psig

MAOP of submerged portion of pipeline is the least of pressures calculated under a, b and c above.

MAOP of pipeline = 1480 psig.

d. Hydrostatic Test Pressure

Hydrotest pressure = $1.50 \times MAOP$

= 1.50x 1480 = 2220 psig

Stress during hydrotest = PD / 2tE

 $= 2220 \times 6.625 / (2 \times 0.432 \times 1)$

= 17,022 psig

95% of yield stress = 33,250 psig > 17,022 psig

Hydrotest pipeline at 2220 psig for 8 hours minimum

6. Safety Devices

PSH's and PSL's on the departing pipeline at West Cameron 96A platform are set to protect the pipeline from over-pressure and under-pressure. The PSH's will also be set to protect Stingray pipeline to which the 6" pipeline is connecting. Subsea check valves will be installed at both ends of the pipeline to minimize back flow.



August 3, 2005

BHP Billiton Petroleum (Americas) Inc. 1360 Post Oak Boulevard Suite 150 Houston Texas 77056 3020 USA Tel 713 961 8500 Fax 713 961 8400 www.bhpbilliton.com

Louisiana Department of Natural Resources Coastal Zone Management Division 617 North 3rd Street, Suite 1048 Baton Rouge, Louisiana 70802

Attention: Mr. Greg DuCote

RE: Application for 6" Gas and Condensate Right-of-Way Pipeline To Be Installed In and/or Through Blocks 96 and 95, West Cameron Area, OCS Federal Waters, Gulf of Mexico, Offshore, Louisiana

Gentlemen:

On this date BHP Billiton Petroleum (Americas) Inc. (BHPB) submitted to the Minerals Management Service an application to install a 6" gas and condensate right-of-way pipeline through Blocks 96 and 95, West Cameron Area, Offshore, Louisiana.

In accordance with Title 15 CFR 930.53 and further clarified in Notice to Lessees (NTL) 2002 G15, a copy of this application is hereby submitted along with a check in the amount of \$300.00 to cover the cost of the processing fee for the proposed application.

Should you have any questions concerning this matter, please contact our regulatory consultant, Valerie Land, J. Connor Consulting, Inc. at (281) 578-3388.

Sincerely,

Scott H. Cornwell

Attorney-in-Fact

SHC:VDL Enclosure

COASTAL ZONE MANAGEMENT PROGRAM CONSISTENCY CERTIFICATION

The proposed activities described in detail in this right-of-way pipeline application comply with the enforceable policies of Louisiana's approved Coastal Management Program(s) and will be conducted in a manner consistent with such Program(s).

BHP Billiton Petroleum (Americas) Inc.

Right-of-Way Applicant

ertifying Official

Date

1360 POST OAK BLVD., SUITE 150 HOUSTON, TX 77056-3020 (713) 961-8500



Louisiana Dept.of Natural Resources Coastal Zone Management Division 625 N. 4th Street, Room 1001 BATON ROUGE LA 70804 **USA**

COMPANY NO

3370

VENDOR NO.

DATE OF CHECK

CHECK NUMBER

PAYMENT DOC NUMBER

4008312 08/01/2005

103529

3030016887

INVOICE NO.	INVOICE DATE	DOCUMENT NO.	REMARKS	NET AMOUNT
3130011400	07/27/2005	072705 ROW		300.00

TOTAL

\$

300.00

DETACH AND RETAIN FOR YOUR RECORDS ATTACHED BELOW

CHECK # 103529



1360 POST OAK BLVD., SUITE 150 HOUSTON, TX 77056-3020

-----311

62-20 CHECK NO.: 103529

(713) 961-8500

DATE : 08/01/2005

VENDOR NO.: 4008312

PAY TO THE

ORDER OF

Louisiana Dept.of Natural Resources Coastal Zone Management Division 625 N. 4th Street, Room 1001 BATON ROUGE LA 70804 USA

\$ \$\$\$\$\$\$\$\$\$300.00

NOT VALID AFTER 90 DAYS

PAY THE

THREE HUNDRED DOLLARS AND ZERO CENTS ONLY

SUM OF

Bank of America, 6000 Feldwood rd Atlanta, GA 30349 U.S.A

BY

CK. More

#103529# #:O61112788:

3299788903#



BHP Billiton Petroleum (GOM) Inc. 1360 Post Oak Boulevard Suite 150 Houston Texas 77056 3020 USA Tel 713 961 8500 Fax 713 961 8400 www.bhpbilliton.com

August 9, 2005

Fedex Tracking No. 662902827467

El Paso Production Company
1001 Louisiana Street; Room 2240
Houston, Texas 77252-2511

Attention:

Ms. Beth Atwood

Gentlemen:

This letter serves as notification that BHP Billiton Petroleum (Americas) Inc. is in the process of submitting an application to Minerals Management Service for the installation of a 6" gas and condensate pipeline to be installed from Platform "A" in West Cameron Block 96 to a subsea tie-in point on Stingray's existing 36" pipeline (Segment No. 3507) in West Cameron Block 95, a portion of which crosses your lease in West Cameron Block 95 (Lease OCS-G 24710).

In accordance with MMS requirements, we are enclosing a complete copy of the subject application for your review.

Please indicate your consent to this proposed crossing by signing this letter in the space provided below and returning a signed copy to the attention of our regulatory representative, Valerie Land, J. Connor Consulting, Inc., 16225 Park Ten Place, Suite 700, Houston, Texas 77084.

Your cooperation in this matter would be greatly appreciated.

Sincerely,

on D. Campbell were
Ron D. Campbell Regulatory & Administrative Manager
RDC:VDL CONSENT GRANTED THIS DAY OF, 2005
Ву:
Title:



BHP Billiton Petroleum (GOM) Inc. 1360 Post Oak Boulevard Suite 150 Houston Texas 77056 3020 USA Tel-713-961-8500 Fax 713 961 8400 Fedex Tracking No. 662902827456

August 9, 2005

Newfield Exploration Company 363 N. Sam Houston Parkway East; Suite 2020 Houston, Texas 77060

Attention: Mr. Jim Zernell

Gentlemen:

This letter serves as notification that BHP Billiton Petroleum (Americas) Inc. is in the process of submitting an application to Minerals Management Service for the installation of a 6" gas and condensate pipeline to be installed from Platform "A" in West Cameron Block 96 to a subsea tie-in point on Stingray's existing 36" pipeline (Segment No. 3507) in West Cameron Block 95, a portion of which crosses your Lease OCS-G 23740, West Cameron Block 96.

In accordance with MMS requirements, we are enclosing a complete copy of the subject application for your review.

Please indicate your consent to this proposed crossing by signing this letter in the space provided below and returning a signed copy to the attention of our regulatory representative, Valerie Land, J. Connor Consulting, Inc., 16225 Park Ten Place, Suite 700, Houston, Texas 77084.

Your cooperation in this matter would be greatly appreciated.

Sincerely,

fon D. Cumpwwlwoll

Ron D. Campbell
Regulatory & Administrative Manager

RDC:VDL

CONSENT GRANTED THIS ____ DAY OF _____, 2005.

By: ______



August 9, 2005

BHP Billiton Petroleum (GOM) Inc.
1360 Post Oak Boulevard Suite 150
Houston Texas 77056 3020 USA
Fedex Tracking Noel 66290282747813 961 8400
www.bhpbilliton.com

Stingray Pipeline Company, L.L.C. 1100 Louisiana; Suite 3300 Houston, Texas 77002

Gentlemen:

This letter serves as notification that BHP Billiton Petroleum (Americas) Inc. is in the process of submitting an application to Minerals Management Service for the installation of a 6" gas and condensate pipeline to be installed from Platform "A" in West Cameron Block 96 to a subsea tie-in point on your existing 36" pipeline (Segment No. 3507) in West Cameron Block 95.

In accordance with MMS requirements, we are enclosing a complete copy of the subject application for your review.

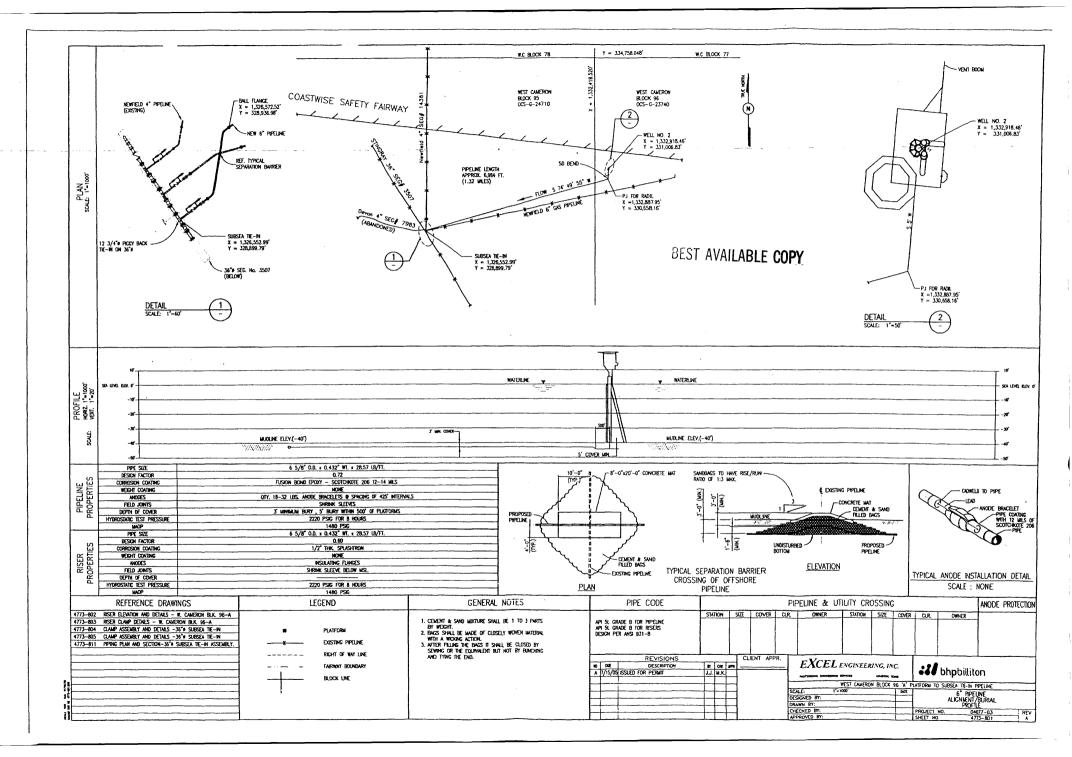
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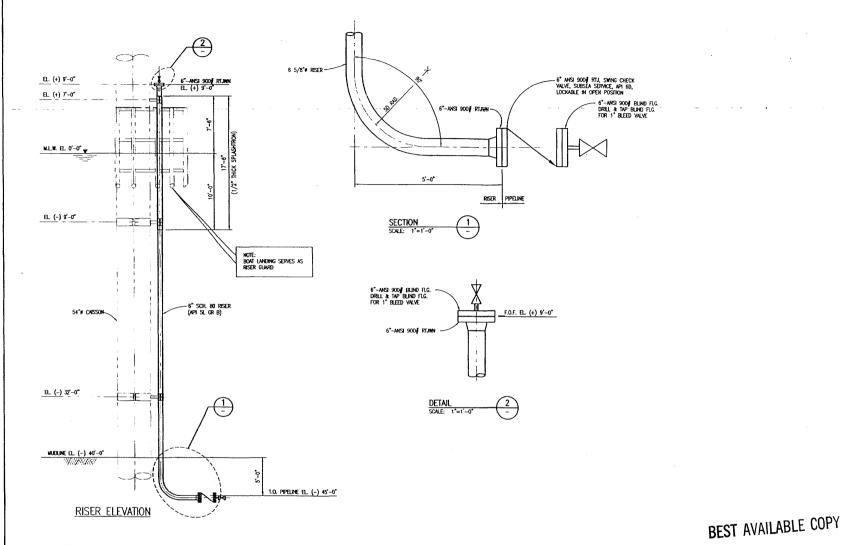
Your cooperation in this matter would be greatly appreciated.

Sincerely,

for D. Campbell feell	
Ron D. Campbell Regulatory & Administrative Manager	
RDC:VDL	
CONSENT GRANTED THIS DAY OF	2005
By:	
Title:	

Car Dipology





MOTES:

1. ALL STRUCTURAL SHIPES AND PLATES SHALL CONFIDM TO ASTM

A-36 EXCEPT WHERE SHAWN OFFERNISE. ALL MALL MAMPACTURED

PPES SHALL CONFORM TO API-51, GRADE B OR ASTM-53 EXCEPT

WHERE SHAVE OFFERNISE.

2. ALL WILDING SHALL BE IN ACCORDANCE WITH AMS DI-1, LATEST

REMISSIO, PLAT PREMERATION LIDIES ON DIFFERENCE MOTED.

3. ALL TRIBULAR CONNECTIONS SHALL BE IN ACCORDANCE WITH API RP-2A.

ALL FARBACTION SHALL BE IN ACCORDANCE WITH

COMPANY SPECIFICATIONS.

ALL PAINTING AND GALVANIZING SHALL BE IN ACCORDANCE WITH COMPANY SPECIFICATIONS.

REVISIONS CLIENT APPR. NO DIGE DESCRIPTION

A 7/15/05 ISSUED FOR PERMIT

9 7/22/05 RE-ISSUED FOR PERMIT BY DBK AFFR J.J. M.K. J.J. M.K.

EXCEL ENGINEERING, INC.

38 bhpbilliton

TRUE NORTH (Z)--

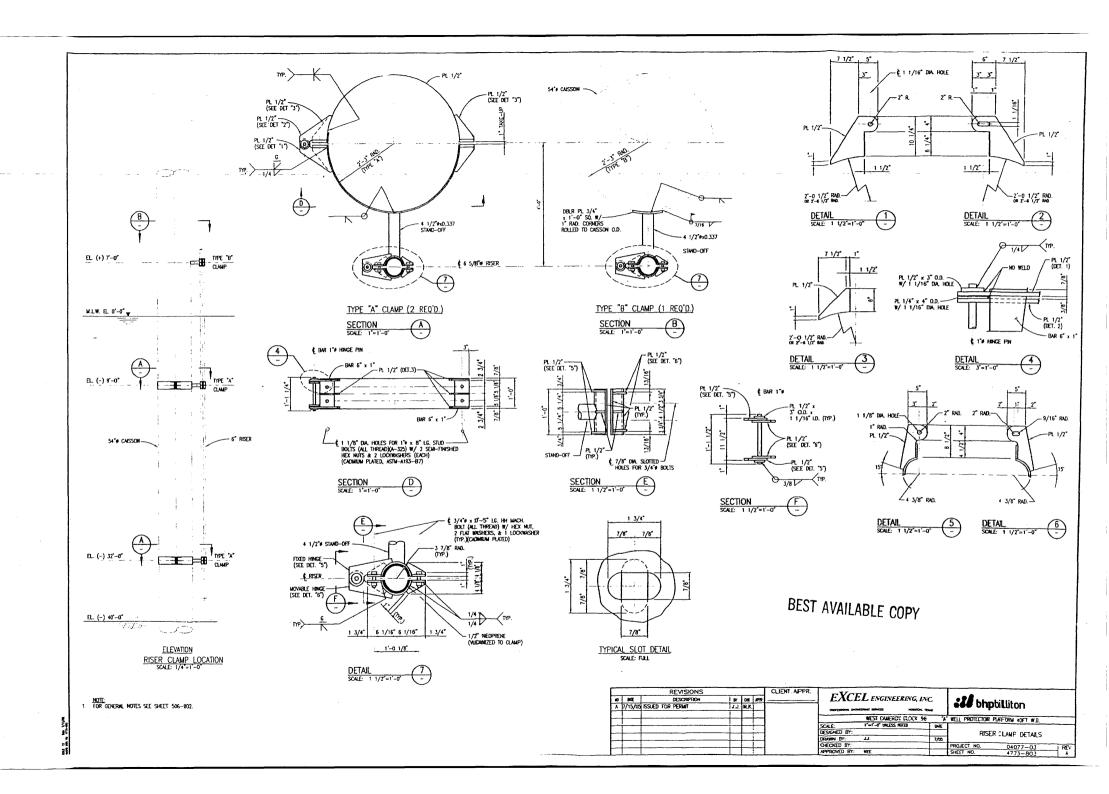
-54° CAISSON

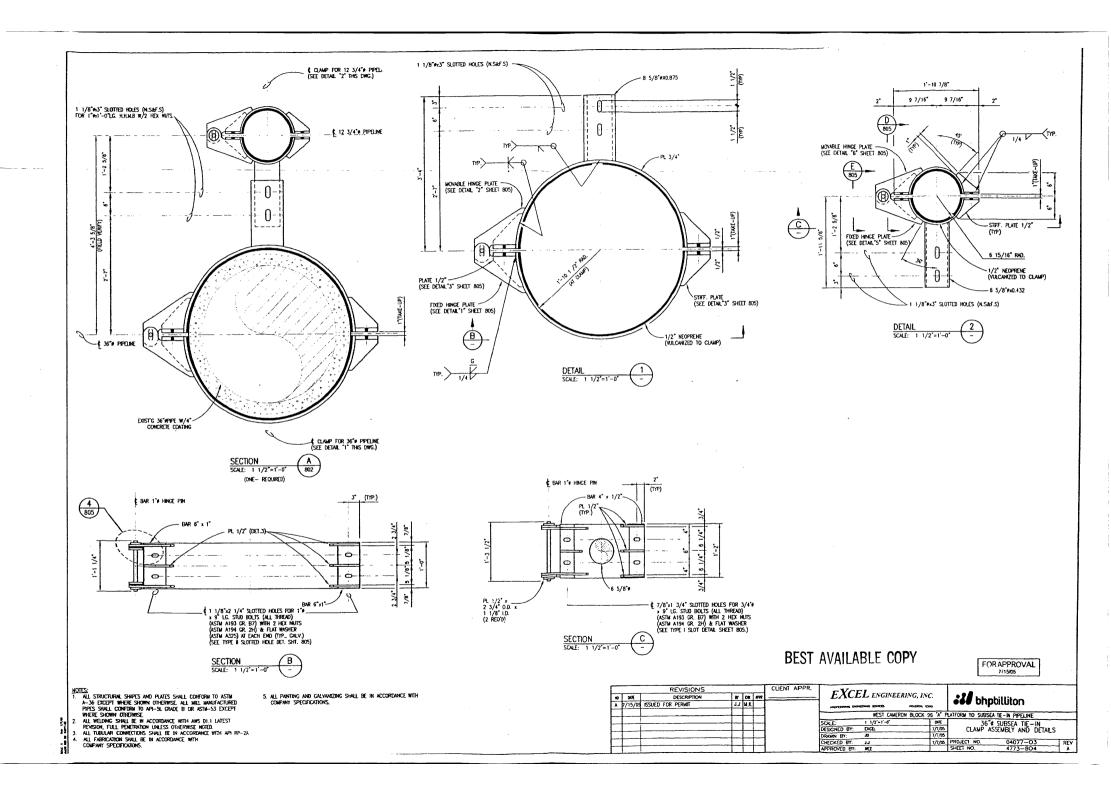
ELEVATION

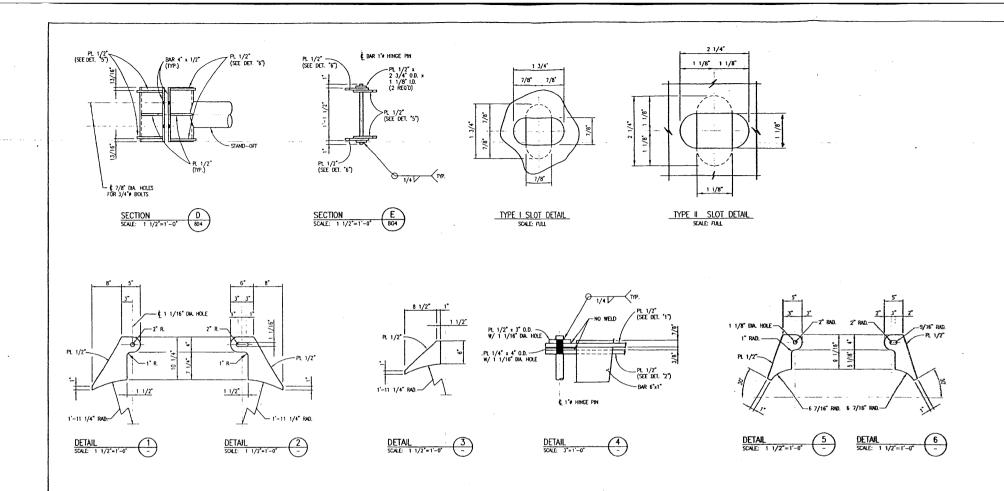
KEY PLAN

~ 6 5/8" • RISER

WEST CAMERON BLOCK 96 "A" WELL PROTECTOR PLATFORM 40 FT W.D. SCALE:
DESIGNED BY:
DRAWN BY:
CHECKED BY:
APPROVED BY 1/4"=1"-0" UNLESS HOTED DATE RISER ELEVATION AND DETAILS 7/05





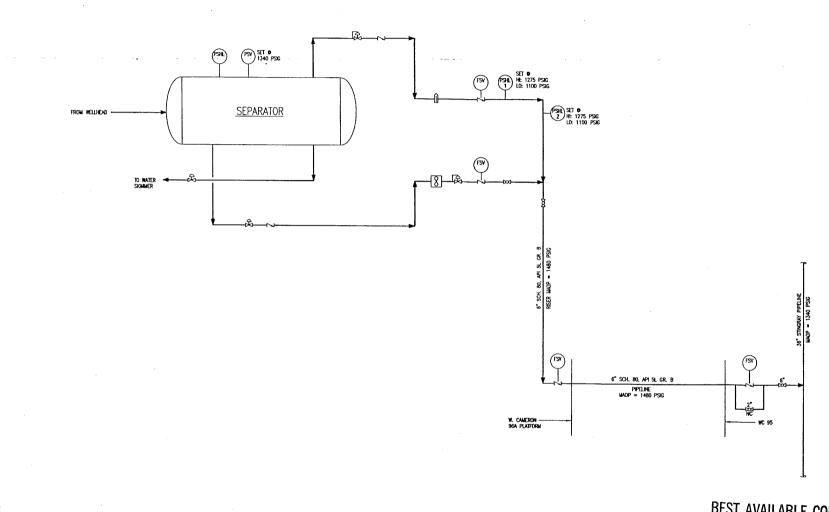


BEST AVAILABLE COPY

REVISIONS

TO BET DESCRIPTION B. DIS BY DESCRIPTION B. DESCRIPTION B. DIS BY DESCRIPTION B. D

NOTE; 1. FOR GENERAL NOTES SEE SHEET 804.



BEST AVAILABLE COPY

CUENT APPR. EXCEL ENGINEERING, INC. **38** bhpbilliton 1. PSH AND PSL ARE SET TO PROTECT STINGRAY PIPELINE. PIPELINE SAFETY SCHEMATIC

