

SN 9062



2000 POST OAK BOULEVARD / SUITE 100 / HOUSTON, TEXAS 77056-4400

(713) 296-6000

September 25, 1997

Mr. Donald C. Howard
Regional Supervisor, Field Operations
United States Department of the Interior
Minerals Management Service
Gulf of Mexico OCS Region
1201 Elmwood Park Boulevard, MS 5232
New Orleans, LA 70123-2394



Re: Abandonment of ^{low} ~~Lease Term~~ Pipeline
Ship Shoal Area Block 37
OCS-G 5041; Segment No. 9062 *G12293*

Gentlemen:

Apache Corporation has completed the abandonment of the 4" oil pipeline from Ship Shoal 37 "A to Ship Shoal 35 Area.

The abandonment of the pipeline commenced on June 3, 1997 and was completed on June 9, 1997. Abandonment services were provided by Acadiana Diving Services of Lafayette, Louisiana. The pipeline ends were plugged and buried three (3) feet below the mudline as per the approved abandonment plan.

Should you have any questions or requests for additional information concerning this matter, please contact Sam Hodge or Jim Snyder at (713) 462-9990.

Very truly yours,
Apache Corporation

Fred Schaidler
Sr. Staff Engineer



FS/JES
Enclosures

corrected copy sent to micro

on msf 10/22/97 15

SN 9062

Handwritten signature
4/3/97

MAY 05 1997

In Reply Refer To: MS 5232

Mr. Alexander M. S. Nash
Apache Corporation
2000 Post Oak Boulevard, Suite 100
Houston, Texas 77056-4400

Dear Mr. Nash:

Pursuant to 30 CFR 250.150(b), the relinquishment of the right-of-way grant associated with the following pipeline is hereby accepted effective April 2, 1997:

<u>Pipeline Segment No.</u>	<u>Size (inches)</u>	<u>Length (feet)</u>	<u>Service</u>	<u>From</u>	<u>To</u>
9062 (Right-of-Way OCS-G 12293)	4 1/2	22,869	Oil	Platform A Block 37 Ship Shoal Area Lease OCS-G 5041	An 18-inch SSTI Block 35 Ship Shoal Area Segment No. 1196

Your letter dated March 17, 1997, requests approval to permanently abandon in place approximately 22,869 feet (4.33 miles) of 4 1/2-inch pipeline designated as Segment No. 9062, and to relinquish in its entirety, Right-of-Way Grant OCS-G 12293 associated therewith.

Pursuant to 30 CFR 250.4(b), approval is hereby granted to abandon this pipeline, and in accordance with 30 CFR 250.159(c), the requirement that the pipeline be removed is hereby waived. However, in the future, should it be determined that this abandoned pipeline constitutes a hazard to navigation or commercial fishing operations or unduly interferes with the other uses of the Outer Continental Shelf, Apache Corporation shall be required to remove it.

Apache Corporation shall cease transporting hydrocarbons through this pipeline immediately and complete the aforementioned abandonment operations within 60 days of the date of this letter. Additionally, Apache Corporation shall submit written notification to this office within 30 days of the completion of the pipeline abandonment. The notification shall include the date the abandonment was completed and an indication that the abandonment was completed as approved.

Sincerely,

(Org. Sgd.) Warren Williamson

Donald C. Howard
Regional Supervisor
Field Operations

bcc: 1502-01 Segment No. 9062, ROW OCS-G 12293 (MS 5232)
1502-01 ROW OCS-G 12293 (Microfilm) (MS 5033)
MS 5421
MS 5232 (Carto)

DIzon:amm:4/3/97:Apache.062

Handwritten notes:
on map
5/6/97
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RECEIVED

APR 4 2 17 PM '97

**UNITED STATES GOVERNMENT
MEMORANDUM**

MINERALS MGMT. SERVICE
GULF OF MEXICO OCS RGN
ADJUDICATION UNIT

17-Mar-97

To: Leasing Activities Section, Adjudication Unit (MS 5421)
From: Petroleum Engineer, Pipeline Unit, Office of Field Operations, Gulf
of Mexico OCS Region (MS 5232)
Subject: Adjudication of Pipeline Right-of-Way Relinquishment

**Right-of-Way
Number:** OCS-G 12293
Applicant: Apache Corporation
Right-of-Way Length: 4.33 Miles

The subject relinquishment is attached for your adjudication. Any questions should be addressed to the undersigned. The pipeline proposed for abandonment is described as follows:

This pipeline was used to transport oil from platform A, in Ship Shoal Area, block No. 37 to an 18-inch subsea tie-in in Ship Shoal Area, Block No. 35.


David Izon

Attachment

Application dated March 17, 1997 (received April 2, 1997) w/attachment

Please initial, date, and return if this application meets all necessary criteria.

Initial Johns, Date 4/14/97





2000 POST OAK BOULEVARD / SUITE 100 / HOUSTON, TEXAS 77056-4400

[713] 296-6000

March 17, 1997

Mr. Donald C. Howard
Regional Supervisor, Field Operations
United States Department of the Interior
Minerals Management Service
Gulf of Mexico OCS Region
1201 Elmwood Park Boulevard, MS 5232
New Orleans, LA 70123-2394

Re: Application to Relinquish
Pipeline Right-of-Way Grant
OCS-G 5041; ROW No. G 12293

Application to Abandon Pipeline in Place
Ship Shoal Area Block 37
OCS-G 5041; Segment No. 9062

Gentlemen:

Apache Corporation herein applies to the Regional Supervisor in triplicate for the relinquishment and abandonment in place of Right-of-Way Grant No. G 12293 (pipeline Segment No. 9062) in its entirety pursuant to the authority granted in The Outer Continental Shelf Lands Act, as amended (43 U.S.C. 1331 et seq.) and in compliance with the regulations contained in Title 30 CFR Chapter II Subchapter B Subpart J, Pipelines and Pipeline Right-of-Way.

Regarding the Right-of-Way Grant:

- The right-of-way grant is being relinquished in its entirety.
- The right-of-way grant is being relinquished because the reason for the grant no longer exists.

Regarding the pipeline abandonment in place:

- Abandonment of the pipeline is proposed because of reservoir depletion and abandonment of associated wells and production facilities.
- Abandonment of the pipeline will be in conjunction with decommissioning activities related to the salvage of the Ship Shoal 37 "A" platform scheduled to begin in June 1997.
- 22869' of 4" O.D. pipe is proposed to be abandoned in place.
- 22869' being abandoned represents the total length of Segment No. 9062.

In support of this application, Apache Corporation attaches the following:

- As Built Pipeline Drawing
- Abandonment In Place Procedure

Please refer to the Apache Corporation's miscellaneous file for previously filed and accepted pipeline right-of-way qualifications as well as other appropriate documents authorizing the signer below.



United States Department of the Interior
Application to Relinquish ROW Grant No. G 12293
Application to Abandon Pipeline Segment No. 9062
March 17, 1997
Page 2

Stipulations:

- Apache Corporation 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.
- Additionally, Apache Corporation expressly agrees 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, such findings shall be reported immediately and every reasonable effort shall be made to preserve and protect the cultural resource from damage until said Regional Supervisor has given directions as to its preservation.
- Applicant agrees to be bound by the foregoing stipulations and further agrees to comply with the applicable regulations set forth by the Minerals Management Service.

Should you have any questions or requests for additional information concerning this matter, please contact Carl Langham, Jim Snyder or Doug Keathley at (713) 462-9990.

Very truly yours,
Apache Corporation



Alexander M. S. Nash
Attorney-in-Fact

FS/JES
Enclosures



ABANDONMENT IN PLACE PROCEDURE

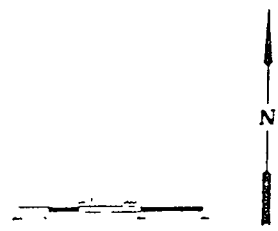
- The pipeline will be flushed and filled with inhibited seawater. The fluids will be caught in USCG approved transporter tanks and shipped to shore for disposal.
- The pipeline will be cut at both ends.
- At the subsea tie-in, the pipeline will be cut within ten (10) feet of the subsea assembly. The subsea assembly will be removed and the side tap will be blind flanged.
- At the platform, the pipeline will be cut within five (5) feet of the riser bend and the riser bend will be removed.
- Both ends of the pipeline will be plugged. A plumbers plug or similar device will be used at each end.
- Both ends of the pipeline will be buried a minimum of three (3) feet below natural bottom. Pneumo readings will be taken to verify the final burial depth.
- The complete pipeline will be abandoned in place. No portion of the pipeline segment will remain in service.

28 27
35 36

27 26
36 37

BEST AVAILABLE COF

PSI 4" OIL P/L AS BUILT - SHOT POINTS					
01	2,081,659.84	16	2,072,792.23	31	2,064,788.72
02	147,648.51	17	146,094.57	32	144,606.54
03	2,080,956.33	18	2,072,608.30	33	2,064,141.48
04	147,503.69	19	145,997.27	34	144,529.40
05	2,080,244.38	20	2,072,221.35	35	2,063,484.95
06	147,382.60	21	145,907.32	36	144,385.08
07	2,079,691.80	22	2,072,095.84	37	2,062,926.03
08	147,256.45	23	145,850.36	38	144,274.70
09	2,079,039.80	24	2,071,862.11	39	2,062,277.89
10	147,141.15	25	145,858.78	40	144,190.59
11	2,078,392.34	26	2,071,300.66	41	2,061,582.12
12	147,023.13	27	145,784.13	42	144,021.89
13	2,077,733.79	28	2,070,647.89	43	2,060,936.09
14	146,911.12	29	145,669.86	44	143,929.26
15	2,077,112.26	30	2,069,998.98	45	2,060,385.54
16	146,812.82	31	145,751.90	46	143,828.33
17	2,076,505.90	32	2,069,192.29	47	2,059,733.55
18	146,720.86	33	145,353.89	48	143,731.14
19	2,075,835.32	34	2,068,663.14	49	2,059,646.44
20	146,596.13	35	145,308.11	50	143,765.80
21	2,075,196.57	36	2,067,970.81	51	2,059,540.41
22	146,540.30	37	145,182.05	52	143,840.25
23	2,074,695.24	38	2,067,309.67	53	2,059,484.08
24	146,390.15	39	145,092.01	54	143,858.55
25	2,073,985.24	40	2,066,731.00	55	2,059,399.48
26	146,261.65	41	144,978.64	56	143,849.68
27	2,073,355.79	42	2,066,145.96		
28	146,154.53	43	144,875.87		
29	2,072,850.43	44	2,065,468.41		
30	146,020.05	45	144,744.26		



UNOCAL 18" OIL P/L

**seg. 9062
to be abandoned**

2,059,359.48
143,849.68
STA 228+69.09
HOT TAP TIE-IN

2,062,400.00
144,206.43
BLOCK CROSSING

PSI 4" OIL P/L

TOTAL LENGTH OF PSI 4" OIL P/L IS 22,400.00

2,078,000.00
146,741.38
BLOCK CROSSING

2,081,813.19
147,643.10
STA 0+00
8" RISER

WELL NO. 3 B 4

2,081,851.71
147,668.23
STA 14+76.67
3" RISER

PSI 3" GAS P/L

TEXACO 3" GAS P/L

WELL NO. 1

2,063,300.00
147,515.07
STA 0+00
3" RISER

TOTAL LENGTH OF PSI 3" GAS P/L IS 1,476.67

TRANSTEX 3" GAS P/L

WELL NO. 2

WELL NO. 5

PSI 8" GAS P/L

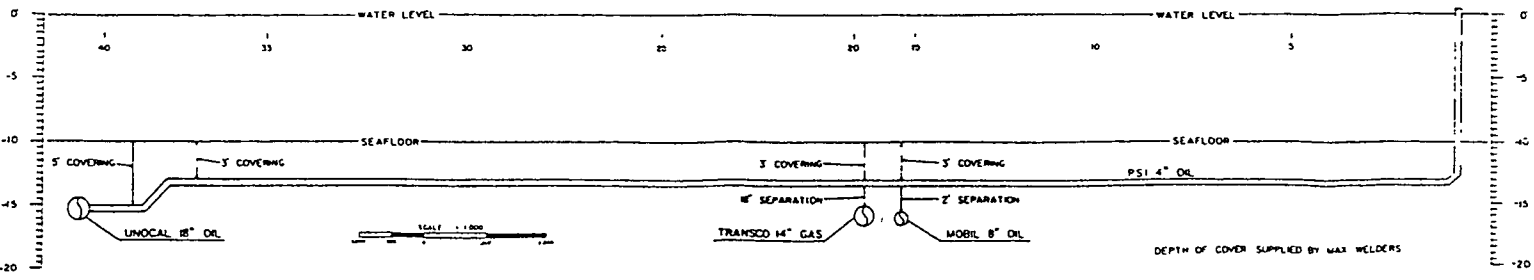
TOTAL LENGTH OF PSI 8" GAS P/L IS 9,047.55

2,080,261.89
141,553.53
BLOCK CROSSING

2,079,622.15
138,862.44
STA 90+87.55
HOT TAP TIE-IN

MOBIL 8" OIL P/L
TRANSCO 14" GAS P/L

SHIP SHOAL AREA



PSI

AS BUILT 4" OIL, 3" GAS, AND 8" GAS PIPELINES
SHIP SHOAL AREA, GULF OF MEXICO

DESIGNED BY: [Signature]
DATE: 07/07/00
SCALE: AS SHOWN
PROJECT: [Signature]

1 OF 1



SN 9062

United States Department of the Interior

MINERALS MANAGEMENT SERVICE

Gulf of Mexico OCS Region
1201 Elmwood Park Boulevard
New Orleans, Louisiana 70123-2394

In Reply Refer To: MS 5421
OCS-G 12293

Instrument:

Filed : November 20, 1995
Executed : September 25, 1995
Approved : February 7, 1996
Effective : July 1, 1995

Aquila Energy Resources Corporation
Assignor

Apache Corporation ¹⁰⁵
Assignee

ACTION: ASSIGNMENT APPROVED

Right-of-way

The approval of this assignment is restricted to record title interest only, and by virtue of this approval, the Assignee is subject to, and shall fully comply with, all applicable regulations now or to be issued under the Outer Continental Shelf Lands Act, as amended. Notwithstanding any agreement between the Assignor and Assignee, the parties remain subject to the liability provisions of the Minerals Management Service regulations codified under 30 CFR 250, Subpart J.

Assignor assigned unto Assignee all of Assignor's right, title and interest.

Record title interest is now held as follows:

OCS-G 12293 Blocks 37, 36 and 35, Ship Shoal Area

Apache Corporation

100%

for *Chris C. Oynes*
Chris C. Oynes
Regional Director

cc: Assignor
Assignee
Case File

SN 9062

*gn msp
2/27/96
B*



2000 POST OAK BOULEVARD / SUITE 100 / HOUSTON, TEXAS 77056-4400

[713] 296-6000

November 6, 1995

- **VIA EXPRESS MAIL** -

United States Department of Interior
Minerals Management Service
Adjudication Unit: MS 5421
Attn: Ms. Jane Burrell-Johnson
1201 Elmwood Park Boulevard
New Orleans, Louisiana 70123-2394

RECEIVED
NOV 20 1995

MINERALS MANAGEMENT SERVICE
LEASING & ENVIRONMENT

RE: Ship Shoal Block 37 to Ship Shoal Block 35
OCS-G 12293
Offshore Louisiana
ASSIGNMENT OF RIGHT-OF-WAY

Dear Ms. Johnson:

We have enclosed the following items for filing with the Minerals Management Service:

- Three fully executed copies of an Assignment of Right-of-Way between Aquila Energy Resources Corporation as Assignor, and Apache Corporation, as Assignee, in and to that certain Right-of-Way bearing Serial Number OCS-G 12293, Block 37 to Block 35, Ship Shoal Area. We request that you return two approved copies to Wanda Tabner at our letterhead address.
- Apache's check in the amount of \$50.00 to cover the filing fee for this instrument.
- A photocopy of this letter of application and we ask that you time stamp the photocopy and return it to Wanda Tabner also.

Aquila Energy Resources Corporation's qualification number is 1512, and Apache Corporation's qualification number is 00105. We request that the effective date of this Assignment be July 1, 1995.

Sincerely,

Earl J. Ritchie, Jr.
Attorney-in-Fact
ROW12293.SS
Enclosures

BEST AVAILABLE COPY

Assignment of Right-of-Way

RECEIVED

NOV 20 1995

UNITED STATES OF AMERICA

OCS-G12293

OUTER CONTINENTAL SHELF LANDS

OFFSHORE LOUISIANA

MINERALS MANAGEMENT SERVICE
LEASING & ENVIRONMENT

KNOW ALL MEN BY THESE PRESENTS THAT.

WHEREAS, under date of May 30, 1990, the United States Department of the Interior, acting through the Minerals Management Service, approved an Application for Right-of-Way, submitted by PSI Energy Resources, Inc. The Right-of-Way, 200 feet in width, was for the installation, operation and maintenance of a 4 1/2" pipeline, 4.33 miles in length, as constructed, for the transportation of oil from PSI, Inc 's Platform A in Block 37 across 36, to a subsea tie-in with Unocal Pipeline Company's 18-inch pipeline (OCS-G 1691) in Block 35, all in the Ship Shoal Area.

WHEREAS, **AQUILA ENERGY RESOURCES CORPORATION**, a Delaware Corporation, whose address is 10370 Richmond Avenue, Suite 700, Houston, Texas 77042, (ASSIGNOR) is the present owner of a one hundred percent (100%) interest in and to the Right-of-Way,

WHEREAS, ASSIGNOR desires to transfer all of its right, title and interest in the Right-of-Way to **APACHE CORPORATION**, a Delaware corporation, whose address is One Post Oak Central, 2000 Post Oak Boulevard, Suite 100, Houston, Texas 77056-4400 (ASSIGNEE);

NOW, THEREFORE, for and in consideration of the sum of fifty dollars (\$50 00) and other good and valuable consideration to it in hand paid by ASSIGNEE, the receipt and sufficiency of which are hereby acknowledged and confessed, ASSIGNOR does hereby transfer and assign all of its right, title and interest in and to the Right-of-Way to ASSIGNEE;

TO HAVE AND TO HOLD said interest unto ASSIGNEE, its successors and assigns, forever, subject to the terms and provisions of said Right-of-Way and of this Assignment;

IT IS UNDERSTOOD AND AGREED that such transfer shall cause the ASSIGNEE herein to assume their proportionate share of all costs, expenses and other obligations chargeable under the Right-of-Way to such interest and shall likewise operate to give and grant to the ASSIGNEE all benefits owing thereunder to the ownership of such intrests.

This assignment shall be effective for all purposes as of July 1, 1995, subject to the approval thereof by the Minerals Management Service.

Executed in triplicate originals this, the 25th day of September, 1995.

WITNESSES:

AQUILA ENERGY RESOURCES CORPORATION

Margaret May
Chris Cheatha

By Christian Woessner
Christian Woessner
President

ACCEPTANCE OF ASSIGNMENT

APACHE CORPORATION, Assignee herein, expressly assumes and agrees to discharge its part of all duties and obligations arising out of or imposed by and under each and all of the terms and provisions of said Right-of-Way

WITNESSES:

APACHE CORPORATION

John W. McClain
Blonde Dennis

By [Signature]

APPROVED

[Signature]
Regional Director

Acting

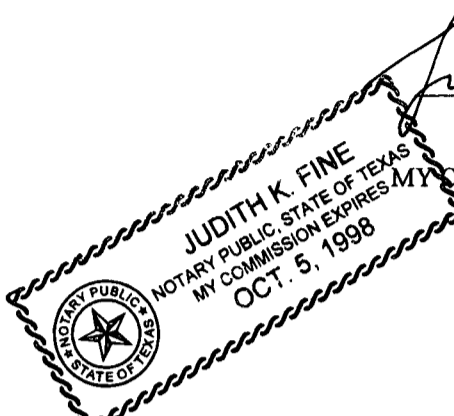
Effective Date JUL 1 1995

STATE OF TEXAS

COUNTY OF HARRIS

ON THIS 25th day of September, 1993, before me, appeared Christian Woessner, to me personally known, who, by me duly sworn, did say that he is the President of AQUILA ENERGY RESOURCES CORPORATION, and that said instrument was signed in behalf of said corporation by authority of its Board of Directors and said Christian Woessner acknowledged said instrument to be the free act and deed of said corporation

Judith K Fine
 NOTARY PUBLIC IN AND FOR
 HARRIS COUNTY, TEXAS
 MY COMMISSION EXPIRES 10-5-98

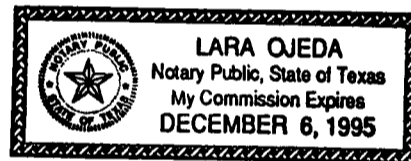


STATE OF Texas

COUNTY OF Harris

ON THIS 21st day of September, before me, appeared George H. Sledz to me personally known, who, by me duly sworn, did say that he is the Attorney-in-Chief of APACHE CORPORATION, and that said instrument was signed in behalf of said corporation by authority of its Board of Directors and said George H. Sledz acknowledged said instrument to be the free act and deed of said corporation

Lara Qjeda
 NOTARY PUBLIC IN AND FOR
Harris COUNTY, Texas
 MY COMMISSION EXPIRES 12/6/95



LARA QJEDA
 Notary Public, State of Texas
 My Commission Expires
 DECEMBER 6, 1995

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SN9062

MARSH 8.27

Stauffer 9/10/92

In Reply Refer To: MS 5232

SEP 10 1992

Aquila Energy Resources Corporation
Attention: Mr. David L. Wilson
5847 San Felipe, Suite 1400
Houston, Texas 77057

Gentlemen:

Your letter dated August 13, 1992, requests approval to install a 30-second time delay on the low-pressure sensors (PSL) on pipeline pumps PAX-5001 and PAX-5002 servicing the following pipeline located in the Ship Shoal Area:

<u>Pipeline Segment No.</u>	<u>Size (inches)</u>	<u>Length (feet)</u>	<u>Service</u>	<u>From</u>	<u>To</u>
9062 (ROW OCS-G 12293)	4	22,869	011	Platform A Block 37 Lease OCS-G 5041	An 18-inch SSTI Block 35 Unleased

Pursuant to 30 CFR 250.3(a), approval to install the aforementioned time delays is hereby granted.

Approval to delete the PSL on the departing line in lieu of the PSL's on the pumps is also granted.

Sincerely,

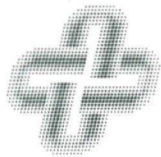
(Orig. Sgd.) A. Donald Giroir

D. J. Bourgeois
Regional Supervisor
Field Operations

bcc: 1502-01 P/L OCS-G 12293 w/orig appln (MS 5232)
1502-01 P/L OCS-G 12293 (MS 5033)
MS 5421
MS 5260

PLMarsh:km:8/24/92

ok
9/14/92
17



AQUILA ENERGY RESOURCES

5847 San Felipe
Suite 1400
Houston, TX 77057

713-782-0093

August 13, 1992

U. S. Department of the Interior
Minerals Management Service
1201 Elmwood Park Boulevard
New Orleans, Louisiana 70123-2394



Attention: Mr. Paul Marsh
Pipeline Unit

RE: 4.500" Oil Right-of-Way Pipeline (OCS-G 12293)
Ship Shoal Block 37/35, OCS Federal Waters, Gulf of Mexico,
Offshore, Louisiana

Gentlemen:

Reference is made to Aquila Energy Resources Corporation's (Aquila's) approved right-of-way for installation of a 4.500" oil pipeline originating at Platform "A" in Ship Shoal Block 37 and terminating via subsea tie-in with a 18-Inch pipeline in Ship Shoal Block 35.

Aquila respectfully requests your consideration for a departure of the Pressure Safety Low (PSL) on the departing 4.500" oil pipeline (KAH 1000); which receives input from pipeline pumps PAX 5001 and PAX 5002.

Additionally, approval is requested for a 30 second time delay on the pipeline pump's PSHL that also protect the departing pipeline.

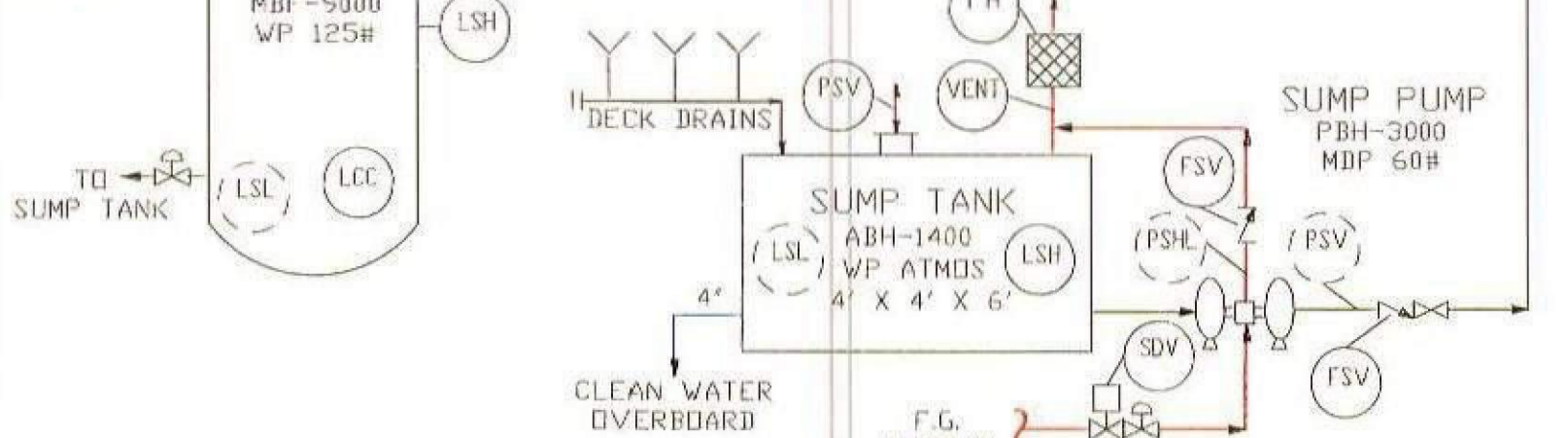
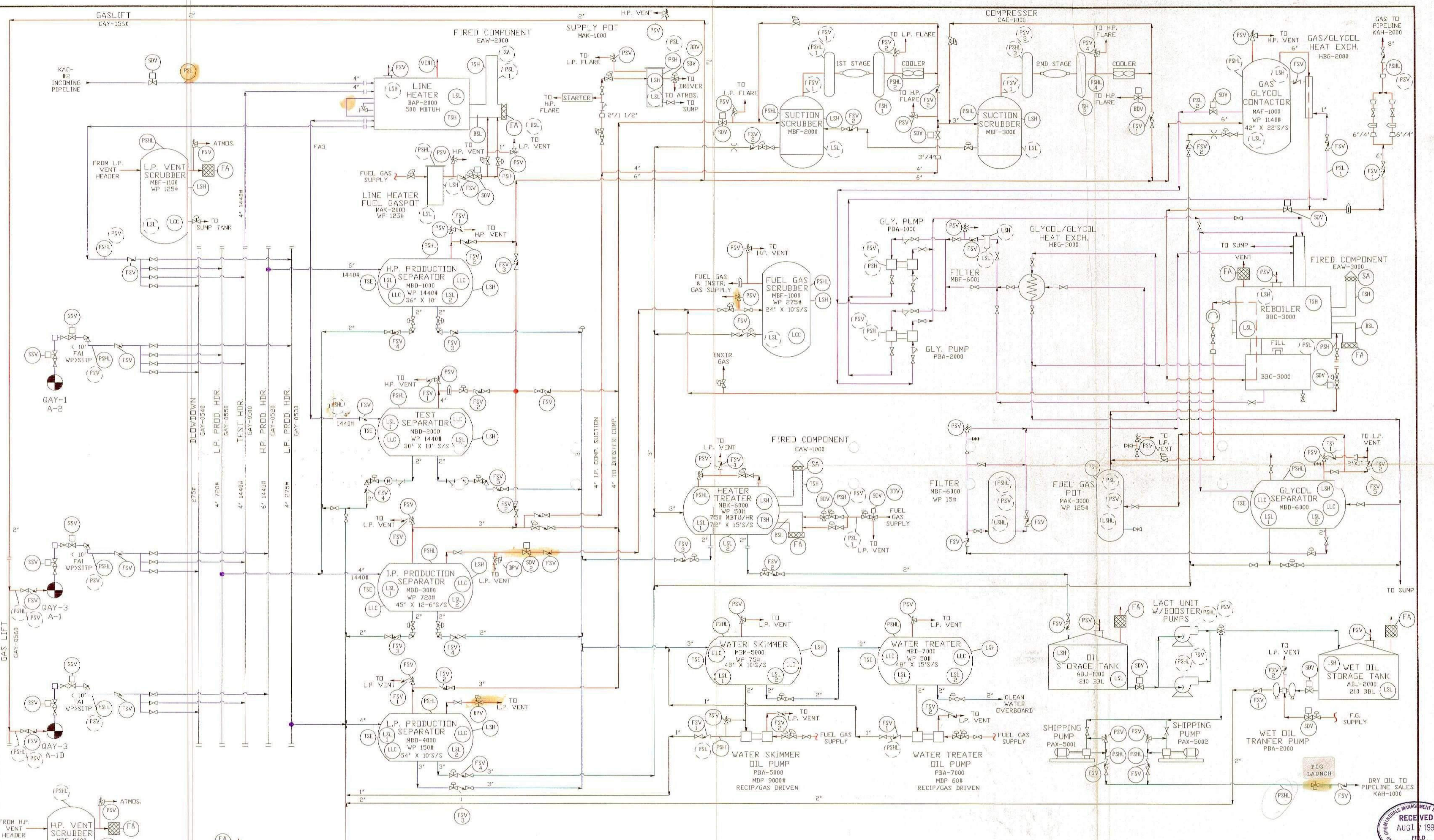
Should you have any questions concerning this request, please contact Aquila's regulatory agent, Connie Goers, J. Connor Consulting, Inc. at (713) 558-0607.

Sincerely,

AQUILA ENERGY RESOURCES CORPORATION

David L. Wilson
Director, Engineering & Operations

DLW:CJG



LEGEND:
 — GAS LINE
 — OIL LINE
 — WATER LINE
 — GLYCOL LINE
 — COND. & WATER
 — WELL STREAM

NOTES:
 1. FUSIBLE PLUGS (TSE) ARE INSTALLED IN ACCORDANCE WITH GUIDELINES IN TABLE C-1 OF THE LATEST APPROVED EDITION OF API RP 14C.
 2. ALL ISOLATION VALVES UPSTREAM OF PSV'S ARE RENDERED INOPERABLE IN THE OPEN POSITION.
 3. ALL SURFACE PIPE WELDING IS IN ACCORDANCE WITH THE PROVISIONS OF THE CURRENT EDITION OF ANSI B31.3 IN EFFECT AT THE TIME OF FABRICATION.
 4. ALL PIPING IS SCH. 80 UNLESS OTHERWISE NOTED.
 5. DASHED SYMBOLS REPRESENT DEVICES SHOWN ON THE SAFETY ANALYSIS TABLE (SAT) BUT HAVE BEEN ELIMINATED IN ACCORDANCE WITH SAFETY ANALYSIS CHECK LIST (SAC). FOR CLARITY, DASHED SYMBOLS ARE NOT SHOWN ON THE FLOWLINES OR HEADER.

REVISIONS				
NO.	DATE	BY	APPR.	REMARKS
1	4/28/92	MLB		GENERATED TO AUTOCAD

ORIGINAL CERTIFIED BY: *[Signature]*

ACQUILLA ENERGY RESOURCE CORP.
 SCHEMATIC FLOW & PIPING DIAGRAM
 DCS-G-5041 PLATFORM 'A'
 SHIP SHOAL BLK: 37
 9062 Row 12293 SHEET: 1 OF 1

DRAWN FOR	DRAWN BY	DATE	FILE NO.	DWG. NO.
	P.M.B. OPER. INC. M.L.B.	4/28/92	SS37A-F1	L1.L2.L3.L4.L5.L6.L7.L8.L9



SN9062



United States Department of the Interior



BEST AVAILABLE COPY

MINERALS MANAGEMENT SERVICE
GULF OF MEXICO OCS REGION
1201 ELMWOOD PARK BOULEVARD
NEW ORLEANS, LOUISIANA 70123-2394

In Reply Refer To: MS 5421
N. O. Misc. No. 1512

November 25, 1991

SS 37-35
G 12293
9062

ACTION

Aquila Energy Resources Corporation

Oil and Gas

CHANGE OF NAME RECOGNIZED

On July 17, 1991, there was filed in this office for approval evidence of change of name from PSI Energy Resources, Inc. to Aquila Energy Resources Corporation, effective March 20, 1991.

In connection with this change, the following evidence was received:

1. Copy of Certificate of Amendment of Certificate of Incorporation changing the name of the corporation to Aquila Energy Resources Corporation duly certified by the Secretary of State of the State of Delaware on May 6, 1991, with additional certification by Gil Armendariz, Assistant Secretary, on June 28, 1991;
2. Statement of Aquila Energy Resources Corporation duly sworn by Gil Armendariz, Assistant Secretary, on June 28, 1991, reflecting the following:
 - A. Aquila Energy Resources Corporation is incorporated in the State of Delaware;
 - B. Aquila Energy Resources Corporation is authorized to hold oil and gas leases and rights-of-way on the Outer Continental Shelf;
3. Incumbency Certificate listing the officers of Aquila Energy Resources Corporation, duly executed by Gil Armendariz, Assistant Secretary, on June 28, 1991;
4. Certificate listing the officers and their authority to execute on behalf of Aquila Energy Resources Corporation, duly executed by Gil Armendariz, Assistant Secretary, on June 28, 1991;



on map
2/26/92
BA

BEST AVAILABLE COPY

- 5. Copy of a resolution adopted by the Board of Directors of Aquila Energy Resources Corporation by unanimous written consent dated March 20, 1991, duly certified by Gil Armendariz, Assistant Secretary, on June 28, 1991;
- 6. Rider to be attached to and form a part of Outer Continental Shelf Mineral Lessee's and Operator's Bond Number 184124 changing the name of the principal to Aquila Energy Resources Corporation effective March 19, 1991;
- 7. Rider to be attached to and form a part of Outer Continental Shelf Right-of-Way Grant Bond Number 184900 changing the name of the principal to Aquila Energy Resources Corporation effective March 19, 1991;
- 8. Listing of the oil and gas leases and pipeline rights-of-way to be affected by the change in corporate name.

In view of the evidence submitted, the change of ownership as to the oil and gas leases and pipeline rights-of-way listed below is recognized and the records so noted:

OIL AND GAS LEASES

OCS-G NO.

2095 SM 116 ✓
 7746 SS 58 ✓
 9508
 11986

OPERATING RIGHTS ONLY

3995 EI 191 ✓
 9610 SS 77 ✓

Handwritten notes:
 SN 71007
 7172
 Lease # 10739
 O+G R-M Oper.

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N. O. Misc. No. 1512

Page 3

PIPELINE RIGHTS-OF-WAY

OCS-G NO.

12293
12294
12370
12727
12733

J. Rogers Percy
J. Rogers Percy
Regional Director

cc: Lessees and Associates
Qualifications File (N. O. Misc. No. 1512)
Case Files

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SN 9002

Britton 1-29-91
Alvarado 1-29-91
Steiffen 1/30/91

In Reply Refer To: MS 5232 (ROW OCS-G 12293)

JAN 30 1991

PSI Energy Resources, Inc.
Attention: Mr. David L. Wilson
5847 San Felipe Plaza, Suite 1400
Houston, Texas 77057-3072

Gentlemen:

In accordance with 30 CFR 250.158(b), your letter dated November 16, 1990, supplemented January 24, 1991, transmitted a pipeline construction report for the following right-of-way pipeline:

Pipeline Right-of-way Number	Size (inches)	Length (feet)	Service	Status	From	To
OCS-G 12293	4 1/2	22,869	Oil	Active	Platform A Block 37 Ship Shoal	An 18-inch SSTI Block 35 Ship Shoal

The data which you provided indicates the following test information and establishes the assigned maximum allowable operating pressure (MAOP) for this pipeline:

Pipeline Right-of-way Number	Test Pressure (psig)	Duration (hours)	MAOP (psig)	MAOP Determination
OCS-G 12293	2,414	8	1,440	Receiving Pipeline

The total length of the "as-built" pipeline right-of-way is 4.33 miles.

In future correspondence, please refer to the above pipeline by its assigned right-of-way number.

Sincerely,

(Orig. Sgd.) A. Donald Giroir

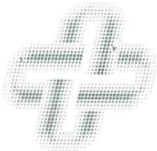
D. J. Bourgeois
Regional Supervisor
Field Operations

bcc: 1502-01 P/L OCS-G 12293 w/orig report (MS 5232)
1502-01 P/L OCS-G 12293 w/cy of report (C. Williams) (MS 5033)
MS 5421
MS 5232 Carto (w/cy of location plat)

ABritton:ds:1/29/91:WP

on copy
2/16/91
PR

me
at
1-31-91



PSI
Energy Resources, Inc.

January 24, 1991

Mr. Daniel J. Bourgeois
Regional Supervisor
Office of Field Operations
U. S. Department of the Interior
Minerals Management Service
1201 Elmwood Park Boulevard
New Orleans, Louisiana 70123-2394



Attention: Mr. Autry Britton
Mail Stop 5232

RE: **OCS-G 12293** Oil Right-of-Way Pipeline Installed In and/or
Through Blocks 37 and 35, Ship Shoal Area, Gulf of Mexico,
OCS Federal Waters, Offshore, Louisiana

Gentlemen:

By letter dated November 16, 1990, PSI Energy Resource's, Inc. submitted pipeline as-built plats and hydrostatic test data applicable to the above referenced pipeline.

In support of your subsequent telephone discussion with PSI's regulatory agent, Connie J. Goers, J. Connor Consulting; enclosed in triplicate are three (3) copies of the pipeline as-built plats which include the additional data as requested.

Should you have any questions regarding this data, please continue to contact Ms. Goers at (713) 558-0607.

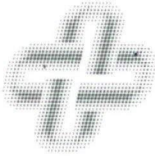
Sincerely,

PSI ENERGY RESOURCES, INC.

David L. Wilson 1/91

David L. Wilson
Director, Engineering

DLW:CJG
Enclosures



PSI
Energy Resources, Inc.

November 16, 1990

Mr. Daniel J. Bourgeois
Regional Supervisor
Office of Field Operations
U. S. Department of the Interior
Minerals Management Service
1201 Elmwood Park Boulevard
New Orleans, Louisiana 70123-2394



Attention: Ms. Carol Williams
Mail Stop 5232

RE: ~~OCS-G 12293~~ Oil Right-of-Way Pipeline Installed In and/or Through
Blocks 37, 36 and 35, Ship Shoal Area, Gulf of Mexico, Federal
Waters, Offshore, Louisiana

Gentlemen:

By letter dated May 30, 1990 your office approved PSI Energy Resource's, Inc. (PSI) application for installation of a 4.500" oil right-of-way pipeline originating at PSI's Ship Shoal Block 37, Platform "A" to a subsea tie-in point with Unocal Pipeline Company's 18" pipeline (OCS-G 1691) in Ship Shoal Block 35, Offshore, Louisiana.

In accordance with regulations contained in Title 30 CFR 250.158(a), your office was notified on August 2, 1990 of the commencement of installation of the subject pipeline, and further notified on August 31, 1990 of the proposed hydrostatic test date.

In accordance with regulations contained in Title 30 CFR 250.158(b), enclosed in triplicate is the "as-built" pipeline route map and hydrostatic test pressure data.

Should you have any questions regarding this data, please contact our regulatory agent, Connie J. Goers, J. Connor Consulting at (713) 558-0607.

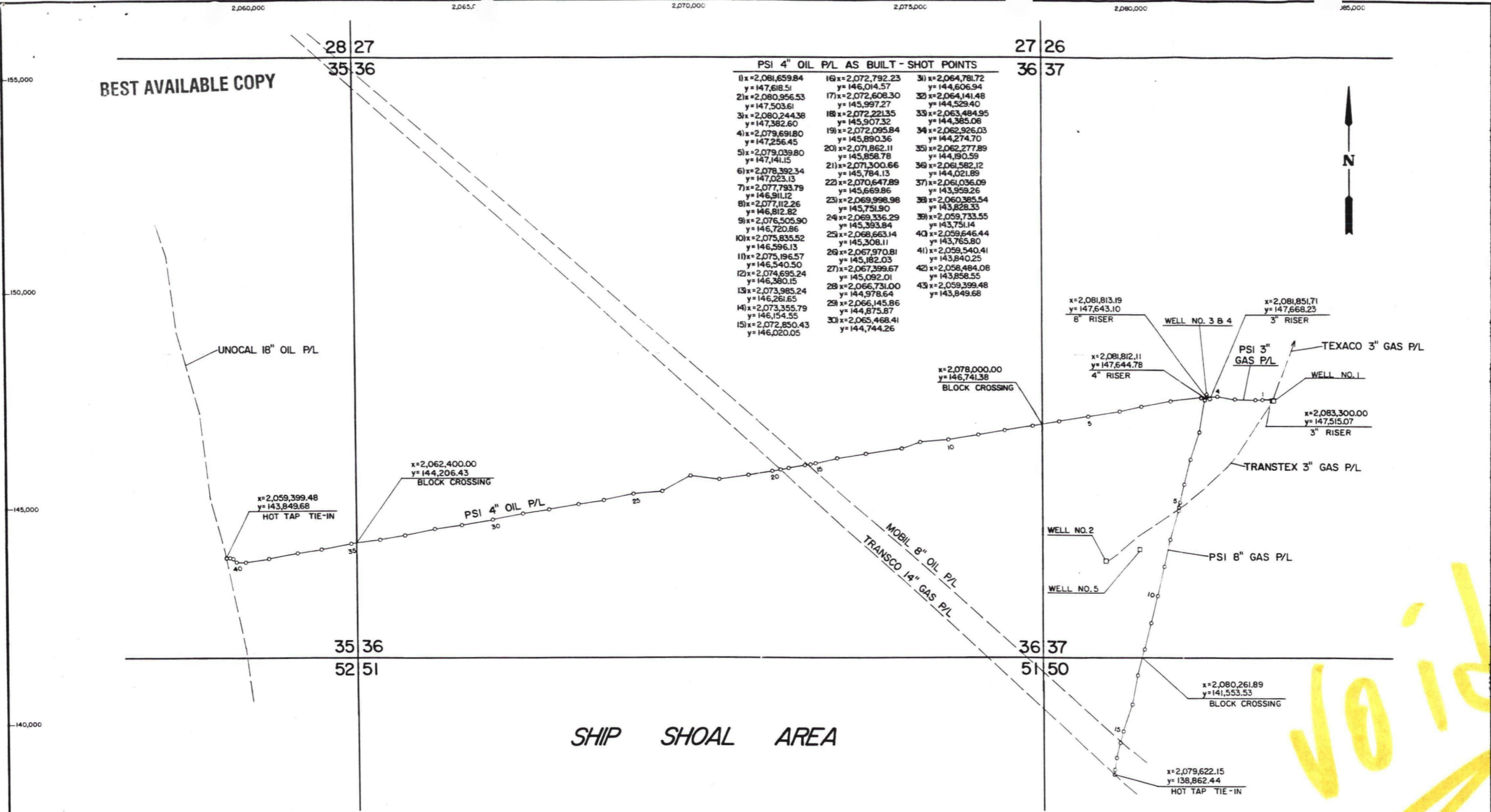
Sincerely,

PSI ENERGY RESOURCES, INC.

David L. Wilson
Director, Engineering

DLW:CJG
Enclosures

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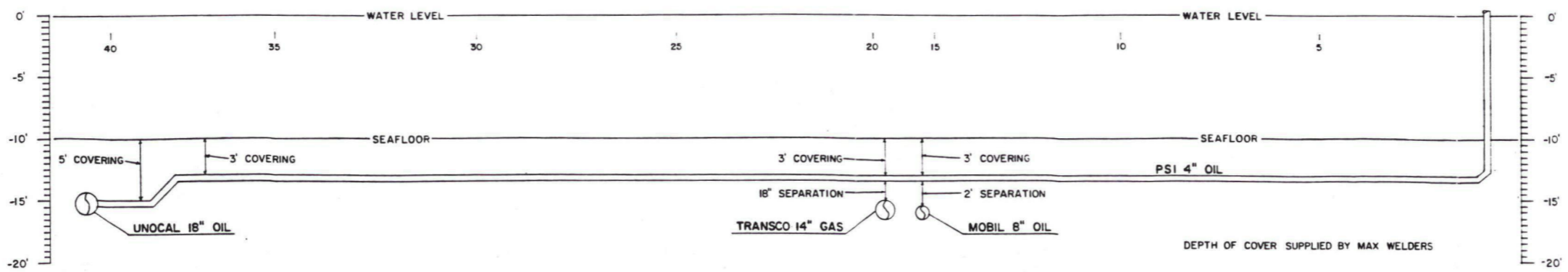


PSI 4" OIL P/L AS BUILT - SHOT POINTS

1) x=2,081,659.84 y=147,618.51	16) x=2,072,792.23 y=146,014.57	31) x=2,064,781.72 y=144,606.94
2) x=2,080,956.53 y=147,503.61	17) x=2,072,608.30 y=145,997.27	32) x=2,064,141.48 y=144,529.40
3) x=2,080,244.38 y=147,382.60	18) x=2,072,221.35 y=145,907.32	33) x=2,063,484.95 y=144,385.08
4) x=2,079,691.80 y=147,256.45	19) x=2,072,095.84 y=145,890.36	34) x=2,062,926.03 y=144,274.70
5) x=2,079,039.80 y=147,141.15	20) x=2,071,862.11 y=145,858.78	35) x=2,062,277.89 y=144,190.59
6) x=2,078,392.34 y=147,023.13	21) x=2,071,300.66 y=145,784.13	36) x=2,061,582.12 y=144,021.89
7) x=2,077,793.79 y=146,911.12	22) x=2,070,647.89 y=145,669.86	37) x=2,061,036.09 y=143,959.26
8) x=2,077,112.26 y=146,812.82	23) x=2,069,998.98 y=145,751.90	38) x=2,060,385.54 y=143,828.33
9) x=2,076,505.90 y=146,720.86	24) x=2,069,336.29 y=145,393.84	39) x=2,059,733.55 y=143,751.14
10) x=2,075,835.52 y=146,596.13	25) x=2,068,663.14 y=145,308.11	40) x=2,059,646.44 y=143,765.80
11) x=2,075,196.57 y=146,540.50	26) x=2,067,970.81 y=145,182.03	41) x=2,059,540.41 y=143,840.25
12) x=2,074,695.24 y=146,380.15	27) x=2,067,399.67 y=145,092.01	42) x=2,058,484.08 y=143,858.55
13) x=2,073,985.24 y=146,261.65	28) x=2,066,731.00 y=144,978.64	43) x=2,059,399.48 y=143,849.68
14) x=2,073,355.79 y=146,154.55	29) x=2,066,145.86 y=144,875.87	
15) x=2,072,850.43 y=146,020.05	30) x=2,065,468.41 y=144,744.26	

SHIP SHOAL AREA

VOID



BEST AVAILABLE COPY

Ref.: DOT 192.501 and 192.719

Account Number JOPT-0171	Contract Number (Prime)	
Prime Contractor OPT, INC		Test Contractor MAX Welders
Description and Location of Pipeline or Appurtenance Being Tested Ship Steel BIK #37 Prod. PLAT. to Unocal 18" P/L in SS BIK #35		

Line Data

Description of Pipe O.D. 4 1/2" W.T. .337 Yld. 35000	Length of Test Section 22,812.72'	From (M.P. or Blk.) SS BIK 37	To (M.P. or Blk.) SS BIK 35	Survey Station Number From: N/A To: N/A
O.D. W.T. Yld.	Test Section Number	Elevation of High Point +13		Elevation of Low Point -13
O.D. W.T. Yld.	Drawing Numbers (Alignment or Fabrication) 063-D-D-602			
O.D. W.T. Yld.	Pipe Manufacturer USS	Purchase Order Number		

Test Data

Type of Test <input type="checkbox"/> Gas <input type="checkbox"/> Air <input checked="" type="checkbox"/> Water	Date Fill Started 9-6-90	Date Fill Completed 9-6-90	Water Treatment <input checked="" type="checkbox"/> Chemical <input type="checkbox"/> Filter	Average Temperature Water, Air or Gas Fill 82
General Weather Conditions Fair & hot	Location and Elevation Where Dead Weight Readings Taken M.P. or Block Location: SS BIK 37 Prod PLAT Elevation: +10			
Minimum Test Pressure Specified (High Point) 2160 PSI (_____ % of Specified Minimum Yield)	Maximum Allowable Test Pressure (Low Point) 3000 PSI (_____ % of Specified Minimum Yield)			

Test Water and Leak Data

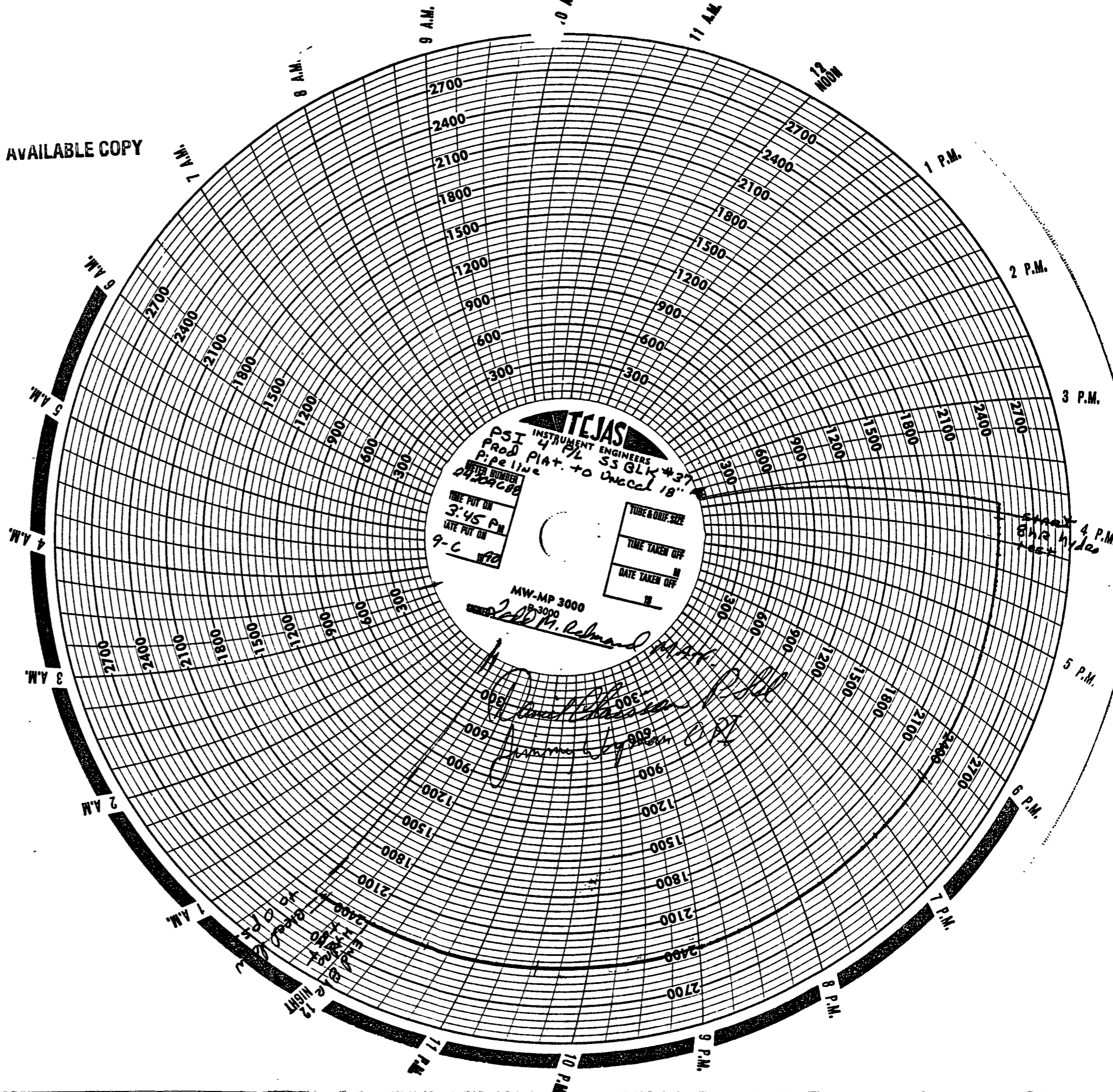
Fill Water	Source Gulf of Mexico	Location SS BIK 35	Survey Station N/A	M.P. or Block 35
Test Water Disposal Point	Location SS BIK 37 Prod. PLAT		Survey Station N/A	M.P. or Block 37
Leak or Test Failures During Test	Location NONE		Survey Station	M.P. or Block
Acidity (pH) of Fill Water	During Fill: N/A	During Disposal: N/A		
Chemicals Added to Fill Water	Type CORROSION Inhibitor	Quantity 500 parts/million		

Dead Weight Pressure and Temperature Log

Date of Readings	Time of Readings	Pressure P.S.I.G.	Temperature of			Remarks
			Ambient	Ground	Pipe	
9-6-90	4:00	2420	83	N/A	84	Start 8hr hydro test
	4:15	2420	84		84	no visual leaks
	4:30	2420	84		85	
	4:45	2420	85		85	
	5:00	2420	85		85	
	5:15	2420	85		85	
	5:30	2414	86		86	
	5:45	2419	86		86	
	6:00	2419	85		86	
	6:30	2418	84		85	
	7:00	2418	84		85	
	7:30	2417	84		84	
	8:00	2417	84		84	
	8:30	2417	84		84	
	9:00	2416	84		84	
	9:30	2416	84		84	
	10:00	2415	84		84	
	10:30	2415	84		83	
	11:00	2414	84		83	
	11:30	2414	84		83	
	12:00	2414	85		83	Test complete
9-7-90	12:30	2414	85		83	Bleed down test

Report Prepared by Todd Redman	Date 9-12-90	Test Supervised by Todd M. Redman
Test Witnessed by see charts Daniel Chaisson		
(1) Test Accepted by	Date	Hour

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9 A.M.

8 A.M.

7 A.M.

6 A.M.

5 A.M.

4 A.M.

3 A.M.

2 A.M.

1 A.M.

12 MIDNIGHT

11 P.M.

10 P.M.

9 P.M.

8 P.M.

7 P.M.

6 P.M.

5 P.M.

4 P.M.

3 P.M.

2 P.M.

1 P.M.

12 NOON

11 A.M.

10 A.M.

TEJAS
 PSI INSTRUMENT ENGINEERS
 Prod 4" PL SS GLK #37
 Pipeline to Unccal 18"
 WELLS NUMBER 07209688

TIME PUT ON 3:45 P.M.
 DATE PUT ON 9-6-70

TUBE & ORIF. SIZE
 TIME TAKEN OFF
 DATE TAKEN OFF

MW-MP 3000
 P-3000

Jed M. Redmond

FIELD # 212
 WELLS # 07209688
 TO 2 P.M.
 11 P.M.

Street 4 P.M.
 8 1/2 hrs hydro

28 27

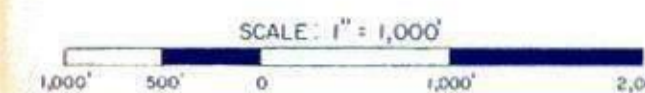
35 36

27 26

36 37

PSI 4" OIL P/L AS BUILT - SHOT POINTS

1) x = 2,081,659.84 y = 147,618.51	16) x = 2,072,792.23 y = 146,014.57	31) x = 2,064,781.72 y = 144,606.94
2) x = 2,080,956.53 y = 147,503.61	17) x = 2,072,608.30 y = 145,997.27	32) x = 2,064,141.48 y = 144,529.40
3) x = 2,080,244.38 y = 147,382.60	18) x = 2,072,221.35 y = 145,907.32	33) x = 2,063,484.95 y = 144,385.08
4) x = 2,079,691.80 y = 147,256.45	19) x = 2,072,095.84 y = 145,890.36	34) x = 2,062,926.03 y = 144,274.70
5) x = 2,079,039.80 y = 147,141.15	20) x = 2,071,862.11 y = 145,858.78	35) x = 2,062,277.89 y = 144,190.59
6) x = 2,078,392.34 y = 147,023.13	21) x = 2,071,300.66 y = 145,784.13	36) x = 2,061,582.12 y = 144,021.89
7) x = 2,077,793.79 y = 146,911.12	22) x = 2,070,647.89 y = 145,669.86	37) x = 2,061,036.09 y = 143,959.26
8) x = 2,077,112.26 y = 146,812.82	23) x = 2,069,998.98 y = 145,751.90	38) x = 2,060,385.54 y = 143,828.33
9) x = 2,076,505.90 y = 146,720.86	24) x = 2,069,336.29 y = 145,393.84	39) x = 2,059,733.55 y = 143,751.14
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11) x = 2,075,196.57 y = 146,540.50	26) x = 2,067,970.81 y = 145,182.03	41) x = 2,059,540.41 y = 143,840.25
12) x = 2,074,695.24 y = 146,380.15	27) x = 2,067,399.67 y = 145,092.01	42) x = 2,059,484.08 y = 143,858.55
13) x = 2,073,985.24 y = 146,261.65	28) x = 2,066,731.00 y = 144,978.64	43) x = 2,059,399.48 y = 143,849.68
14) x = 2,073,355.79 y = 146,154.55	29) x = 2,066,145.86 y = 144,875.87	
15) x = 2,072,850.43 y = 146,020.05	30) x = 2,065,468.41 y = 144,744.26	



UNOCAL 18" OIL P/L

x = 2,059,399.48
y = 143,849.68
STA. 228+69.09
HOT TAP TIE-IN

x = 2,062,400.00
y = 144,206.43
BLOCK CROSSING

PSI 4" OIL P/L

TOTAL LENGTH OF PSI 4" OIL P/L IS 22,869.09'

x = 2,078,000.00
y = 146,741.38
BLOCK CROSSING

MOBIL 8" OIL P/L
TRANSCO 14" GAS P/L

x = 2,081,813.19
y = 147,643.10
STA. 0+00
8" RISER

WELL NO. 3 & 4

x = 2,081,851.71
y = 147,668.23
STA. 14+76.67
3" RISER

PSI 3" GAS P/L

TEXACO 3" GAS P/L

WELL NO. 1

x = 2,081,812.11
y = 147,644.78
STA. 0+00
4" RISER

x = 2,083,300.00
y = 147,515.07
STA. 0+00
3" RISER

TOTAL LENGTH OF PSI 3" GAS P/L IS 1,476.67'

TRANSTEX 3" GAS P/L

WELL NO. 2

WELL NO. 5

PSI 8" GAS P/L

(SEE DETAIL SHEET 2)

TOTAL LENGTH OF PSI 8" GAS P/L IS 9,087.55'

x = 2,080,261.89
y = 141,553.53
BLOCK CROSSING

x = 2,079,622.15
y = 138,862.44
STA. 90+87.55
HOT TAP TIE-IN

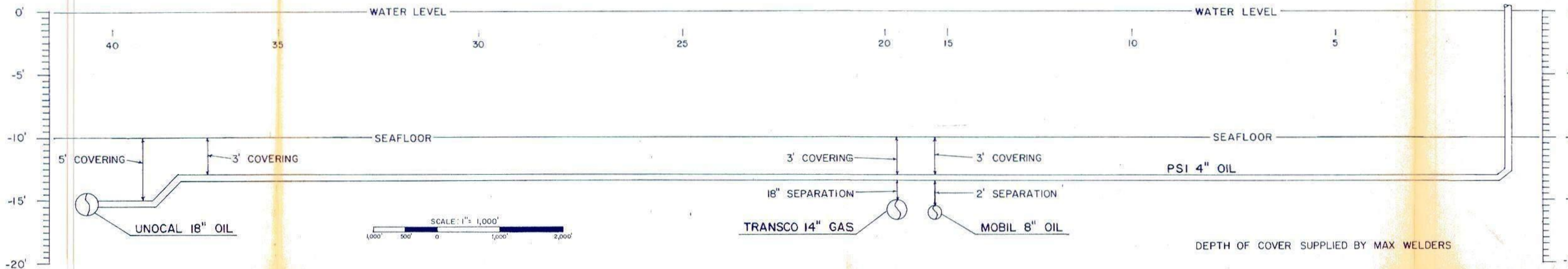
35 36

52 51

36 37

51 50

SHIP SHOAL AREA



OCS-G12293

PSI
AS BUILT 4" OIL, 3" GAS, AND 8" GAS PIPELINES
SHIP SHOAL AREA, GULF OF MEXICO

T. BAKER SMITH & SON, INC.
CIVIL ENGINEERS - LAND SURVEYORS
HOUMA, LOUISIANA
DATE: 10/8/90 REV: 1/14/91 REV: 1/17/91

Leonard J. Chauvin, Jr.
REG. No. 4607
REGISTERED PROFESSIONAL LAND SURVEYOR

HORIZONTAL AS BUILT CERTIFIED CORRECT.

SHEET 1 OF 2

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2,060,000 2,065,000 2,070,000 2,075,000 2,080,000 2,085,000

28 27 27 26
35 36 36 37

PSI 4" OIL P/L AS BUILT - SHOT POINTS

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6) x=2,078,392.34 y=147,023.13	21) x=2,071,300.66 y=145,784.13	36) x=2,061,582.12 y=144,021.89
7) x=2,077,793.79 y=146,911.12	22) x=2,070,647.89 y=145,669.86	37) x=2,061,036.09 y=143,959.26
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15) x=2,072,850.43 y=146,020.05	30) x=2,065,468.41 y=144,744.26	



UNOCAL 18" OIL P/L

x=2,059,399.48
y=143,849.68
STA 228+69.09
HOT TAP TIE-IN

x=2,062,400.00
y=144,206.43
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PSI 4" OIL P/L

TOTAL LENGTH OF PSI 4" OIL P/L IS 22,869.09'

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y=146,741.38
BLOCK CROSSING

x=2,081,813.19
y=147,643.10
STA 0+00
8" RISER

WELL NO. 3 & 4

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y=147,668.23
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3" RISER

PSI 3" GAS P/L

TEXACO 3" GAS P/L

WELL NO. 1

x=2,083,300.00
y=147,515.07
STA 0+00
3" RISER

TOTAL LENGTH OF PSI 3" GAS P/L IS 1,476.67'

TRANSTEX 3" GAS P/L

WELL NO. 2

WELL NO. 5

PSI 8" GAS P/L
(SEE DETAIL SHEET 2)

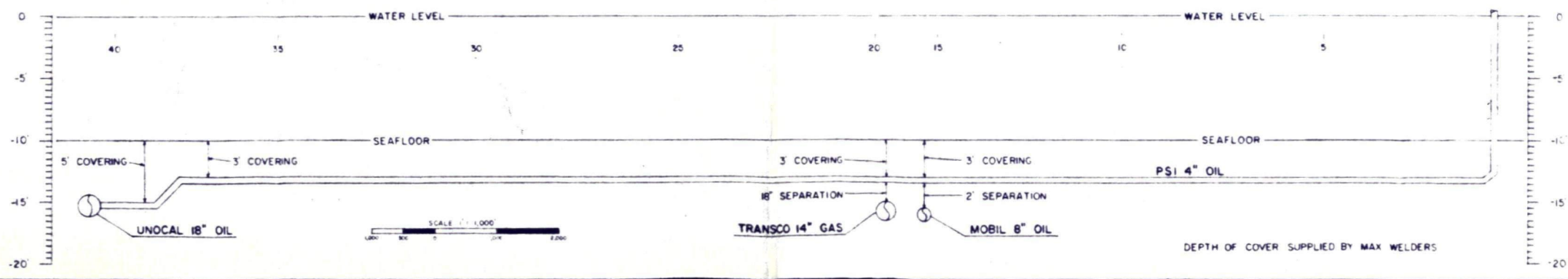
TOTAL LENGTH OF PSI 8" GAS P/L IS 9,087.55'

x=2,080,261.89
y=141,553.53
BLOCK CROSSING

x=2,079,622.15
y=138,862.44
STA 90+87.55
HOT TAP TIE-IN

MOBIL 8" OIL P/L
TRANSCO 14" GAS P/L

SHIP SHOAL AREA



OCS-G12293

PSI

AS BUILT 4" OIL, 3" GAS, AND 8" GAS PIPELINES
SHIP SHOAL AREA, GULF OF MEXICO

T. BAKER SMITH & SON, INC.
CIVIL ENGINEERS - LAND SURVEYORS
HOUMA, LOUISIANA
DATE: 10/8/90 REV: 1/4/91 REV: 1/17/91
Thomas J. Chauvin
REGISTERED PROFESSIONAL LAND SURVEYOR

DEPTH OF COVER SUPPLIED BY MAX WELDERS

SHEET 1 OF 2

ID#: G 12293
G 12294

REPORT RECEIVED BY

Name: Carol W.
Date: 8-2-90

REPORT GIVEN BY

Name: PSI / Connie Goers
Phone: _____
Company: _____

PIPELINE INSTALLATION

Date of Installations: 8-3-90
Contractor and Barge No: OPI ^{max 102 + 103} Heliport Location: No
Size of Pipeline: 4 1/2 + 8 5/8 HELIPORT ON PLATFORM.

Service: _____

4 1/2 From: Structure SS 37 A To: Structure/SSTI SS 35 ← G 12293

8 5/8 Block _____ Block _____
Lease SS 37 A Lease SS 50 ← G 12294

Where Construction begins: SS 37 A

Length of time barge will be on job: _____

District Notified Date: _____
Time: _____

Person Contacted: _____

Date of Inspection: _____ Date Inspection Report Received: _____

PIPELINE HTP

Date of Test: _____
Location of Recorder: Friday Aug 31/90
Location of Heliport: _____

District Notified Date: _____
Time: _____

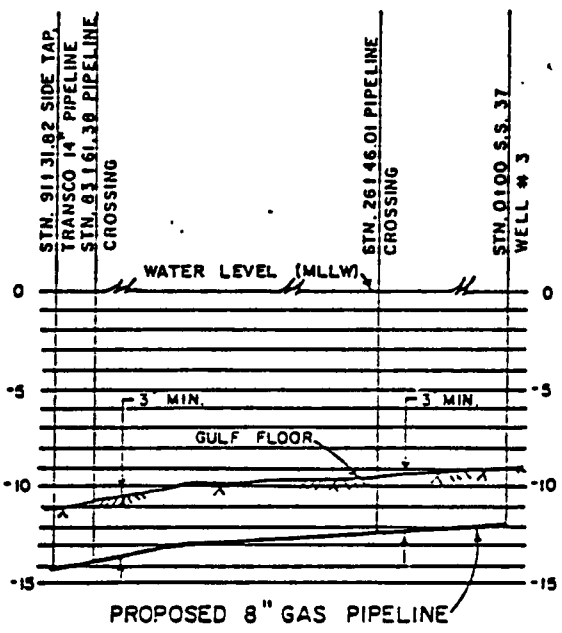
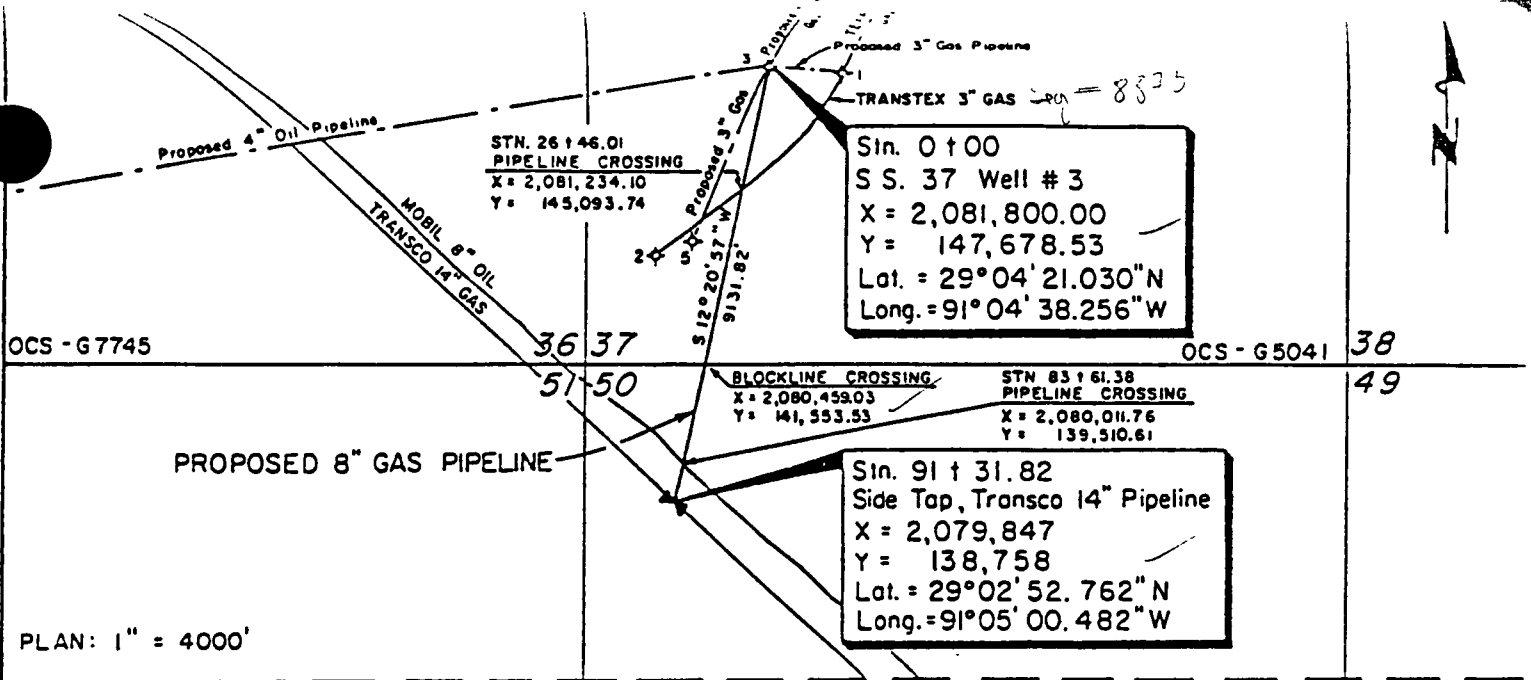
Person Contacted: _____

Date of Inspection: _____ Date Inspection Report Received: _____

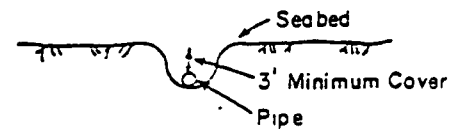
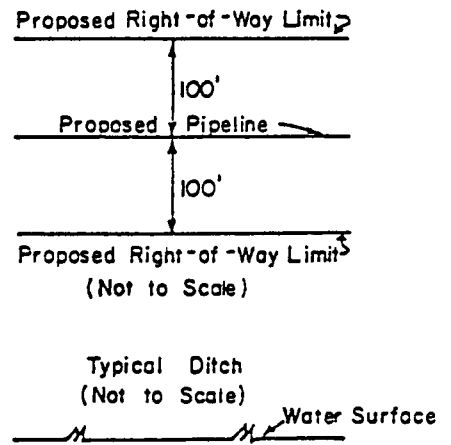
Remarks: _____

Inspection
Complete


BEST AVAILABLE COPY



PROFILE:
Vertical: 1" = 10'
Horizontal: 1" = 4000'



Note: Design characteristics are in accordance with D.O.T specifications.

I hereby certify that this plat has been prepared following generally accepted professional standards for proposed offshore pipelines.

Keith A. Codd Tx. Reg. No. 4669



DATUM: NAD 27
SPHEROID CLARKE 1866
PROJECTION LAMBERT
ZONE LOUISIANA SOUTH



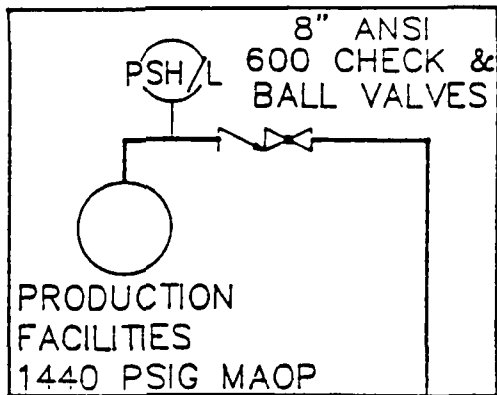
PSI INC.

PROPOSED 8" GAS PIPELINE
S.S. 37 WELL # 3 TO SIDE TAP, TRANSCO 14" P/L
BLOCKS 37 & 50
SHIP SHOAL AREA

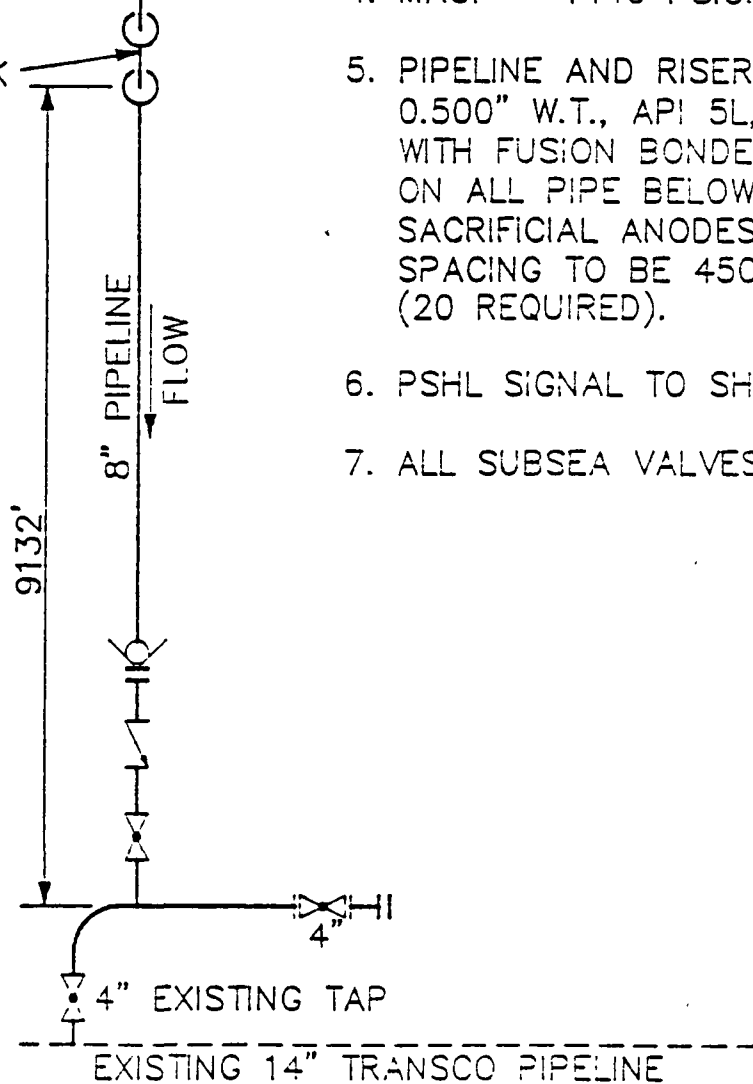
DATE	JOB #
3/06/90	149133
	CP = 041

SHEET 2 OF 9

PROPOSED 8" NATURAL GAS LINE
PRODUCTION PLATFORM



RISERS COATED
WITH 0.500" THICK
RUBBER COATING
IN SPLASH ZONE.



1. PSI FLOWLINE FACILITIES COMPLY WITH PART 192, TITLE 49 OF THE CODE OF FEDERAL REGULATIONS.
2. HIGH PRESSURE SENSORS WILL BE SET AT 1168 PSIG.
3. LOW PRESSURE SENSORS WILL BE SET AT 825 PSIG.
4. MAOP = 1440 PSIG.
5. PIPELINE AND RISER - 8 5/8" O.D. X 0.500" W.T., API 5L, GRADE B PIPE WITH FUSION BONDED EPOXY COATING ON ALL PIPE BELOW SPLASH ZONE. SACRIFICIAL ANODES, 39 LBS EACH, SPACING TO BE 450' CENTERS (20 REQUIRED).
6. PSHL SIGNAL TO SHUTDOWN SYSTEM.
7. ALL SUBSEA VALVES - ANSI 900.

PROPOSED 8" NATURAL GAS LINE
GULF OF MEXICO
SHIP SHOAL AREA
BLOCK 37 TO BLOCK 50
APPLICATION BY PSI, INC.

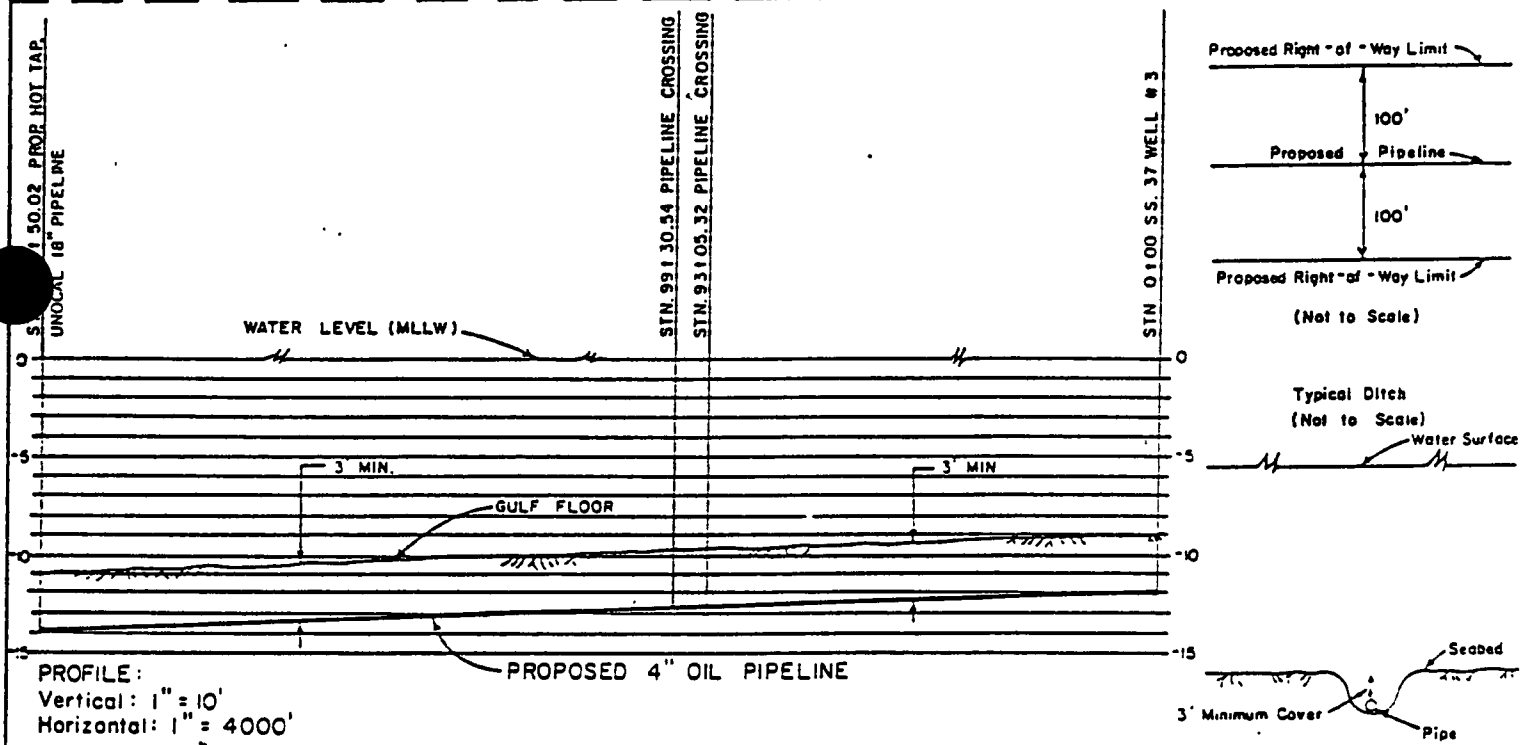
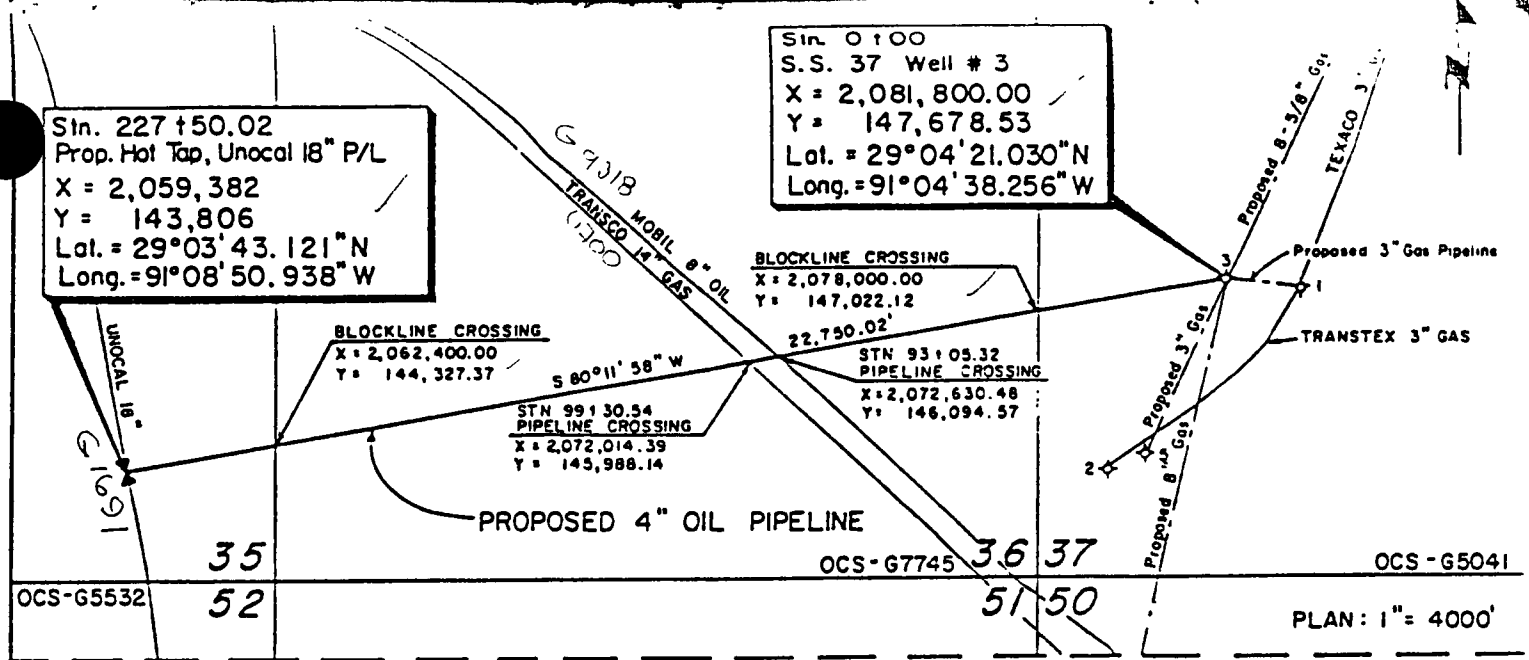
SHEET 3 OF 9

14 MAR 90

BEST AVAILABLE COPY

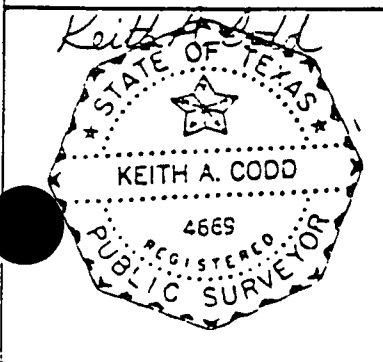
Stn. 0+00
 S.S. 37 Well # 3
 X = 2,081,800.00
 Y = 147,678.53
 Lat. = 29°04'21.030"N
 Long. = 91°04'38.256"W

Stn. 227+50.02
 Prop. Hot Tap, Unocal 18" P/L
 X = 2,059,382
 Y = 143,806
 Lat. = 29°03'43.121"N
 Long. = 91°08'50.938"W



I hereby certify that this plot has been prepared following generally accepted professional standards for proposed offshore pipelines.
 Keith A. Codd Tx. Reg. No. 4669

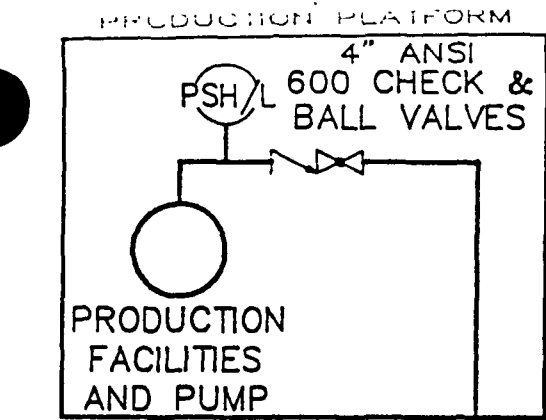
Note: Design characteristics are in accordance with D.O.T. specifications.



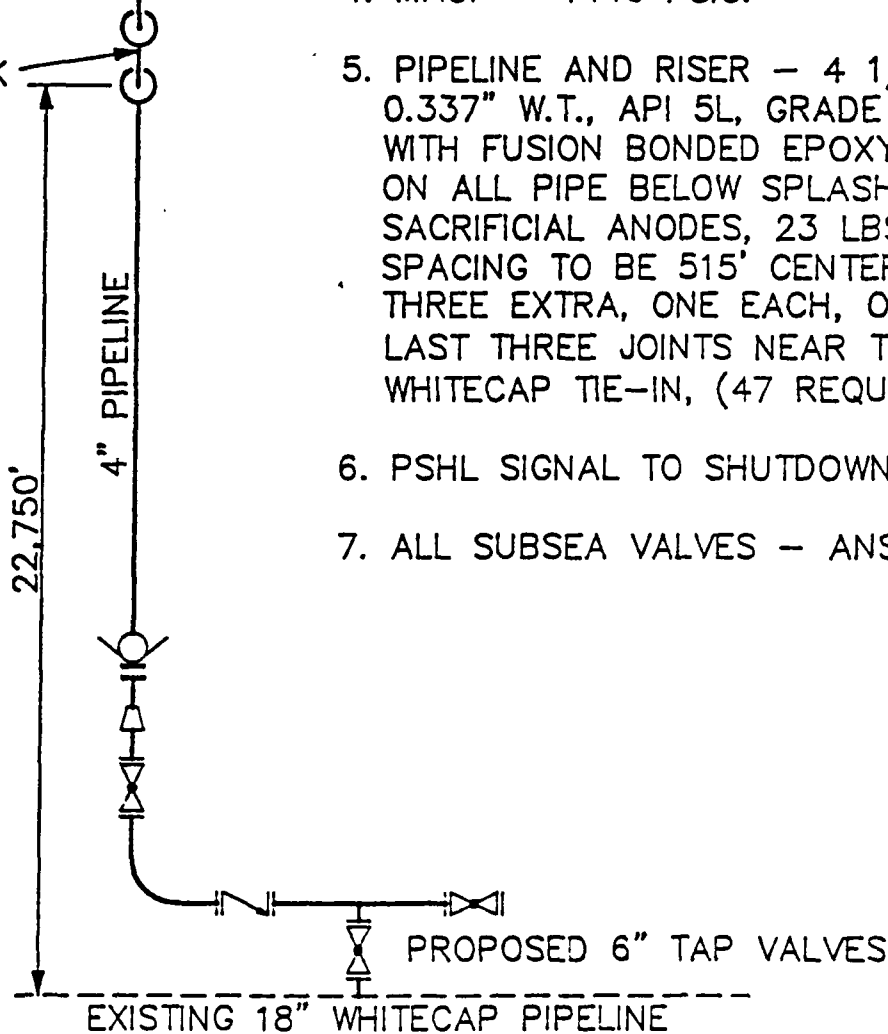
DATUM: NAD 27
 SPHEROID CLARKE 1866
 PROJECTION: LAMBERT
 ZONE: LOUISIANA SOUTH
AQUANAV
 A Division of NCS International

PSI INC.
 PROPOSED 4" OIL PIPELINE
 S.S. 37 WELL # 3 TO PROP HOT TAP, UNOCAL 18" P/L
 BLOCKS 37, 36, & 35
 SHIP SHOAL AREA
 DATE: 3/07/90
 SHEET 2 of 9
 JOB # 249133
 D.P. # 0411

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RISERS COATED WITH 0.500" THICK RUBBER COATING IN SPLASH ZONE.



1. PSI PIPELINE FACILITIES COMPLY WITH PART 195, TITLE 49 OF THE CODE OF FEDERAL REGULATIONS.
2. HIGH PRESSURE SENSORS WILL BE SET AT 500 PSIG.
3. LOW PRESSURE SENSORS WILL BE SET AT 50 PSIG.
4. MAOP = 1440 PSIG.
5. PIPELINE AND RISER - 4 1/2" O.D. X 0.337" W.T., API 5L, GRADE B PIPE WITH FUSION BONDED EPOXY COATING ON ALL PIPE BELOW SPLASH ZONE. SACRIFICIAL ANODES, 23 LBS EACH, SPACING TO BE 515' CENTERS, WITH THREE EXTRA, ONE EACH, ON THE LAST THREE JOINTS NEAR THE WHITECAP TIE-IN, (47 REQUIRED).
6. PSHL SIGNAL TO SHUTDOWN SYSTEM.
7. ALL SUBSEA VALVES - ANSI 900.

BAUGHER ENGINEERING INC. DWG. NO. 083-A-A-703

PROPOSED 4" OIL PIPELINE
 GULF OF MEXICO
 SHIP SHOAL AREA
 BLOCK 37 TO BLOCK 35
 APPLICATION BY PSI, INC.

9062

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PIPELINE INSPECTION CHECK LIST

Date of Inspection: 12-6-90

Company Contact: Lejeune

Lessee/Operator: PSI

Contractor: _____
Barge ID _____

MIS Inspector: Williams

Barge or Platform: SS 37 A
Location _____

Segment No.: G 12293

DOI/DOI: DOT

From: SS 37 A

To: SSTI SS 35

PIPELINE CONSTRUCTION/SPECIFICATIONS

Size: 4 1/2

Wall Thickness: _____

Grade: _____

Anodes: _____

Seamless: _____

Type: _____ Weight: _____

Coating: _____

No.: _____ Spacing: _____

Pipeline Crossing & Clearance: _____

Burial Depth: _____

Existing Pipeline(s) Bored: _____

Valves/Flaps Cover: _____

Length: _____

HIP DATA

(Medium) Water or Product

Duration Time

Pressure (PSI)

MINIMUM RATING OF VALVES, FLANGES, FITTINGS AND PRESSURE DATA

Rating: ANSI 600

Approved MAOP: 1440

Service: Oil

Pipeline Flowing Pressure: 110

Source: Pumps

Flow Well(s), SIPP: _____

High Sensor(s): 180 207

Low Sensor(s): 20 15

PSV: _____

Is low sensor installed where it could not be isolated? _____

RISER PROTECTION

Rating: Bumper Guard: Splash Guard:

Water Depth: _____

Remarks: _____

OPTION : GCM OCS REGION
SN _____

UNITED STATES DEPARTMENT OF THE INTERIOR
MINERALS MANAGEMENT SERVICE
BUREAU OF MEXICO OCS REGION
PIPELINE INSPECTION FORM

FILE NO. _____
DATE 01/27/93
PAGE 1

BEST AVAILABLE COPY

DATE OF THIS INSP: ___/___/___

*** PIPELINE MASTER ***

SEGMENT NO	ROW NO	OPERATOR NAME				APPROVAL CODE	AUTHORITY CODE	PIPE SIZE	PIPE CODE			
ID	ORIGINATION AREA	BLOCK	LEASE	ID	DESTINATION AREA	BLOCK	LEASE	PIPE LENGTH	APPROVAL DATE			
INITIAL TEST DATE	CATH CODE	CATH LIFE	DIRECT CODE	SYSTEM DESIGN	MIN DEPTH	MAX DEPTH	BURIED DESIGN	RECEIV PIPE SEGMENT	RECEIV PIPE PRESSURE	MAX ALLOW PRESSURE	DEPART CODE	STATUS
NEW												
NEW												
NEW												

OPTION : GCM OCS REGION

UNITED STATES DEPARTMENT OF THE INTERIOR
MINERALS MANAGEMENT SERVICE
BUREAU OF MEXICO OCS REGION
PIPELINE INSPECTION FORM

FILE NO. _____
DATE 01/27/93
PAGE 2

DATE OF THIS INSP: ___/___/___

*** DEPARTURES APPROVED ***

LINE NO	DATE ADDED	PINC NO	DATE ISSUED	COMMENTS
---	___/___/___	---	___/___/___	_____
---	___/___/___	---	___/___/___	_____
---	___/___/___	---	___/___/___	_____
---	___/___/___	---	___/___/___	_____
---	___/___/___	---	___/___/___	_____
---	___/___/___	---	___/___/___	_____

OPTION : GCM OCS REGION

UNITED STATES DEPARTMENT OF THE INTERIOR
MINERALS MANAGEMENT SERVICE
BUREAU OF MEXICO OCS REGION
PIPELINE INSPECTION FORM

FILE NO. _____
DATE 01/27/93
PAGE 3

DATE OF THIS INSP: 12,6,90

*** INSPECTION SUMMARY ***

	TIME SUMMARY		TYPE INSPECTION		INSPECTION CODE		INSPECTOR'S SIGNATURE
	LAST	CURRENT	LAST	CURRENT	LAST	CURRENT	
INSPECTION	---	30 min	---	SI	---	57	_____
WAITING	---	---	---	---	---	---	_____
TRAVEL	---	---	---	---	---	---	_____
TOTAL	---	---	---	---	---	---	_____

Flight same as @ 12294

*** ENFORCEMENT ACTION ***

LINE NO	INC NO	ITEM NAME	ENF ACT	SHUT-IN		RECEIVED		COMMENTS	LOSS OIL	LOSS GAS	AVG OIL	AVG GAS
				DATE MO-DA-YR	TIME HR	DATE MO-DA-YR	TIME HR					
---	---	_____	---	___/___/___	---	___/___/___	---	_____	---	---	---	---
---	---	_____	---	___/___/___	---	___/___/___	---	_____	---	---	---	---
---	---	_____	---	___/___/___	---	___/___/___	---	_____	---	---	---	---
---	---	_____	---	___/___/___	---	___/___/___	---	_____	---	---	---	---

*** REMARKS ***

LINE NO	REMARKS	LINE NO	REMARKS
---	_____	---	_____
---	_____	---	_____
---	_____	---	_____
---	_____	---	_____

SN9062

In Reply Refer To: FO-2-2 (OCS-G 12293)

MAY 30 1990

PSI Energy Resources, Inc.
Attention: Mr. Vincent F. Marquez, Jr.
5847 San Felipe Plaza, Suite 1400
Houston, Texas 77057

Gentlemen:

Pursuant to the authority granted by 43 U.S.C. 1334(e) and 30 CFR 250.150(d), your application dated April 16, 1990, for a pipeline right-of-way two-hundred feet (200') in width for the installation, operation, and maintenance of a 4 1/2-inch pipeline, 4.31 miles in length, is hereby approved, as proposed.

The proposed pipeline will transport oil from PSI, Inc.'s Platform A in Block 37 across Block 36, to a subsea tie-in with Unocal Pipeline Company's 18-inch pipeline (OCS-G 1691) in Block 35, all in the Ship Shoal Area.

This approval is subject to the following conditions:

1. Construct, operate, and maintain the pipeline in accordance with the Department of Transportation Regulations Title 49 CFR 195.

2. Our analysis indicates the following as potential hazards to the proposed activities. Therefore, precautions as outlined in Notice to Lessees and Operators (NTL) No. 83-3, Section IV.B, shall be taken prior to conducting operations:

a. Pipelines

<u>Name</u>	<u>Diameter (inches)</u>	<u>Block</u>	<u>Area</u>
Mobil Eugene Island Pipeline Company	8	36	Ship Shoal
Transcontinental Gas Pipe Line Corporation	14	36	Ship Shoal
Unocal Pipeline Company	18	35	Ship Shoal
PSI, Inc.	3	37	Ship Shoal
PSI, Inc.	3	37	Ship Shoal

b. Magnetic Anomalies

<u>Block</u>	<u>Line No.</u>	<u>Shot Point</u>	<u>Amplitude (gammas)</u>
37	8	8.9	18
37	11	442.7	24
35	17	509.0	41

on map
6/18/90
KJ

PDB

3. The unidentified magnetic anomalies listed below may represent archaeological resources. In accordance with NTL No. 75-3 (Revision No. 1, Enclosure No. 3), PSI Energy Resources, Inc., shall either determine that the potential archaeological resources do not have historic significance, or avoid them when conducting proposed activities as indicated by the avoidance criteria below:

<u>Block</u>	<u>Line No.</u>	<u>Shot Point</u>	<u>Avoidance Criteria (meters)</u>
36	4A	194.1	76
36	4A	191.5	76
35	5	263.1	152
36	6	279.7	76
36	6	281.6	76

4. PSI, Inc.'s, Regional Oil Spill Contingency Plan approved on July 14, 1989, shall cover this pipeline operation.

Based on our analysis of your application, the maximum allowable operating pressure for this pipeline will be 1,440 psig.

Sincerely,

(Orig. Sgd.) D. J. Bourgeois

D. J. Bourgeois
Regional Supervisor
Field Operations

cc: Department of Transportation
2320 La Branch, Room 2116
Houston, Texas 77004 (w/application)

bcc: 1502-01 (P/L OCS-G 11293) (w/enclosures) (K. Faust) (FO-2-2)
1502-01 (P/L OCS-G 11293) (FO-2-2)
FO-4
LE-5
LE-3-1 (w/receipt)
FO-2-2 Carto (w/plat)

CWilliams:ds:5/24/90:LEXITYPE

OCS-G 12293
FO2-2



PSI
Energy Resources, Inc.

April 16, 1990

Mr. Daniel J. Bourgeois
Regional Supervisor
Office of Field Operations
U. S. Department of the Interior
Minerals Management Service
1201 Elmwood Park Boulevard
New Orleans, Louisiana 70123-2394

Attention: Ms. Carol Williams
FO-2-2



RE: Application for an 4.500-Inch Oil Right-of-Way Pipeline to be Installed
In and/or Through Blocks 37, 36 and 35, Ship Shoal Area, Gulf of
Mexico, Federal Waters, 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, PSI Energy Resources, Inc. (PSI) is filing this application in quadruplicate (original and three copies) for a right-of-way two hundred feet (200') in width for the construction, maintenance and operation of an 4.500-Inch oil pipeline to be installed in and/or through Blocks 37, 36 and 35, Ship Shoal Area, Gulf of Mexico. PSI agrees that said right-of-way, if approved, will be subject to the terms and conditions of said regulations.

The pipeline will depart PSI's proposed Ship Shoal Block 37 Platform "A" (Well No. 3) in a southwesterly direction, approximately 22,750.02 feet (4.31 miles) to a subsea tie-in point with Unocal's existing 18-Inch pipeline in Ship Shoal Block 35, all being in the Gulf of Mexico, Federal Waters, Offshore, Louisiana. The proposed construction commencement date is June 5, 1990, with the time required to lay the pipe being estimated at 12 days with an overall completion of project time being estimated at 14 days.



Page Two

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. 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 the OCS Pipeline Procedures Guidebook dated March, 1984, revised September, 1984.



PSI
Energy Resources, Inc.

Page Three

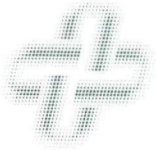
In support of our application and for your review and use, the following maps, drawings and documents have been enclosed herewith and made a part hereof:

1. Designated Operators and Right-of-Way Holders (Attachment "A")
2. Vicinity Map, (Sheet 1 of 9)
3. Route Map, (Sheet 2 of 9)
4. Platform / Pipeline Schematic, (Sheet 3 of 9)
5. Typical Pipeline Crossing Schematic, (Sheet 4 of 9)
6. General Pipeline Information & Calculations (Sheets 5 to 9 of 9)
7. Aquanav Pipeline Pre-Lay Engineering & Archaeological Report
8. Riser Guard Drawing (Drawing 063-D-D-620)
9. Originally signed copy of Nondiscrimination in Employment Stipulation is attached to each copy of the application.
10. Check dated April 16, 1990 in the amount of \$ 1475.00 of which, \$ 1400.00 covers the application fee and \$ 75.00 covers the first years rental on 4.31 miles of right-of-way.

Contact on technical points or other information:

Connie J. Goers
J. Connor Consulting
P. O. Box 218753
Houston, Texas 77218
Telephone: 713/558-0607

"PSI Energy Resources, Inc., 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."



PSI
Energy Resources, Inc.

Page Four

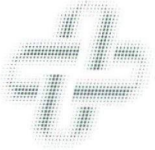
Please refer to your New Orleans Miscellaneous File No. 1512 for a copy of a resolution approved by the Board of Directors authorizing the undersigned to sign for and on behalf of PSI Energy Resources, Inc.

If the above information meets with your approval, we would appreciate your issuing the necessary decision for the right-of-way at your earliest convenience. Inquiries concerning this application should be directed to our regulatory agent at J. Connor Consulting, P. O. Box 218753, Houston, Texas, Attention: Ms. Connie J. Goers (713) 558-0607.

Sincerely,

Vincent F. Marquez, Jr.
Vice President

VFM:CJG:
Attachments and Enclosures



PSI
Energy Resources, Inc.

Page Five

cc: Mobil Eugene Island Pipeline Company
P. O. Box 900
Dallas, Texas 75221
(Certified Mail No. P 496 479 211)

PSI, Inc.
Attention: Vincent F. Marquez, Jr.
5847 San Felipe, Suite 1400
Houston, Texas 77257
(Certified Mail No. P 496 479 212)

Conoco, Inc.
P. O. Box 2197
Houston, Texas 77252
(Certified Mail No. P 496 479 213)

Unocal Pipeline Co.
Attention: William Mampre
P. O. Box 8033
Houma, Louisiana 70361
(Certified Mail No. P 496 479 214)

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 as of April 13, 1990, per research of MMS records by Caroline Bennett, J. Connor Consulting).

SHIP SHOAL AREA

BLOCK 37

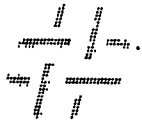
PSI, Inc.	OCS-G 5041	Oil & Gas Lease
PSI, Inc.	OCS-G 11183	Pipeline R-O-W

BLOCK 36

Conoco, Inc.	OCS-G 7745	Oil & Gas Lease
Transcontinental Gas Pipeline Corporation	OCS-G 0700	Pipeline R-O-W
Mobil Eugene Island Pipeline Company	OCS-G 9318	Pipeline R-O-W

BLOCK 35

Open		Oil & Gas Lease
Unocal Pipeline Co.	OCS-G 1691	Pipeline R-O-W



PSI
Energy Resources, Inc.

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

April 17, 1990

**Mobil Eugene Island Pipeline Company
P. O. Box 900
Dallas, Texas 75221**

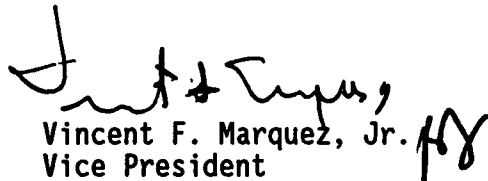
Gentlemen:

PSI Energy Resources, Inc., (PSI) is in the process of submitting an application to the MMS for a Pipeline Right-of-Way for a proposed 4.500-Inch oil pipeline to be installed in and/or through Blocks 37, 36 and 35, Ship Shoal Area, Gulf of Mexico, Federal Waters, Offshore, Louisiana, which crosses a portion of your lease(s) and/or pipeline.

In order to expedite processing of the proposed right-of-way application, PSI is hereby requesting you submit a letter of no objection to, Ms. Connie J. Goers, J. Connor Consulting, P. O. Box 218753, Houston, Texas 77218. (Sample attached).

Your cooperation in this matter would be greatly appreciated.

Sincerely,


Vincent F. Marquez, Jr.
Vice President

VFM:CJG:bna
Enclosures

PSI Energy Resources, Inc.
c/o Ms. Connie J. Goers
J. Connor Consulting
P. O. Box 218753
Houston, Texas 77218

RE: Minerals Management Service Application by PSI Energy Resources, Inc.
for a Proposed 4.500-Inch O.D. Oil Pipeline to be Installed In and/or
Through Blocks 37, 36 and 35, Ship Shoal Area, Gulf of Mexico, Federal
Waters, Offshore, Louisiana.

Dear Ms. Goers:

PSI Energy Resources, Inc. proposes to install an 4.500-Inch oil pipeline originating at its proposed Platform "A" in Ship Shoal Block 37 to a subsea tie-in point with Unocal's existing 18-Inch pipeline in Ship Shoal Block 35. The route of the above referenced pipeline right-of-way crosses a portion of Blocks 37, 36 and 35, Ship Shoal Area, all being in Federal Waters, Offshore, Louisiana.

Please be advised our company has no objection to the operations proposed.

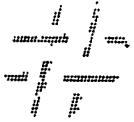
Signature

Company

Address

City State Zip

Date



PSI
Energy Resources, Inc.

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

April 17, 1990

**PSI, Inc.
5847 San Felipe, Suite 1400
Houston, Texas 77257**

Attention: Mr. Vincent F. Marquez, Jr.

Gentlemen:

PSI Energy Resources, Inc., (PSI) is in the process of submitting an application to the MMS for a Pipeline Right-of-Way for a proposed 4.500-Inch oil pipeline to be installed in and/or through Blocks 37, 36 and 35, Ship Shoal Area, Gulf of Mexico, Federal Waters, Offshore, Louisiana, which crosses a portion of your lease(s) and/or pipeline.

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Your cooperation in this matter would be greatly appreciated.

Sincerely,

Vincent F. Marquez, Jr.
Vice President

VFM:CJG:bna
Enclosures

PSI Energy Resources, Inc.
c/o Ms. Connie J. Goers
J. Connor Consulting
P. O. Box 218753
Houston, Texas 77218

RE: Minerals Management Service Application by PSI Energy Resources, Inc.
for a Proposed 4.500-Inch O.D. Oil Pipeline to be Installed In and/or
Through Blocks 37, 36 and 35, Ship Shoal Area, Gulf of Mexico, Federal
Waters, Offshore, Louisiana.

Dear Ms. Goers:

PSI Energy Resources, Inc. proposes to install an 4.500-Inch oil pipeline
originating at its proposed Platform "A" in Ship Shoal Block 37 to a subsea
tie-in point with Unocal's existing 18-Inch pipeline in Ship Shoal Block 35.
The route of the above referenced pipeline right-of-way crosses a portion of
Blocks 37, 36 and 35, Ship Shoal Area, all being in Federal Waters,
Offshore, Louisiana.

Please be advised our company has no objection to the operations proposed.

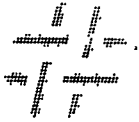
Signature

Company

Address

City State Zip

Date



PSI
Energy Resources, Inc.

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

April 17, 1990

**Conoco, Inc.
P. O. Box 2197
Houston, Texas 77252**

Gentlemen:

PSI Energy Resources, Inc., (PSI) is in the process of submitting an application to the MMS for a Pipeline Right-of-Way for a proposed 4.500-Inch oil pipeline to be installed in and/or through Blocks 37, 36 and 35, Ship Shoal Area, Gulf of Mexico, Federal Waters, Offshore, Louisiana, which crosses a portion of your lease(s) and/or pipeline.

In order to expedite processing of the proposed right-of-way application, PSI is hereby requesting you submit a letter of no objection to, Ms. Connie J. Goers, J. Connor Consulting, P. O. Box 218753, Houston, Texas 77218. (Sample attached).

Your cooperation in this matter would be greatly appreciated.

Sincerely,

Vincent F. Marquez, Jr.
Vice President

MS

VFM:CJG:bna
Enclosures

PSI Energy Resources, Inc.
c/o Ms. Connie J. Goers
J. Connor Consulting
P. O. Box 218753
Houston, Texas 77218

RE: Minerals Management Service Application by PSI Energy Resources, Inc.
for a Proposed 4.500-Inch O.D. Oil Pipeline to be Installed In and/or
Through Blocks 37, 36 and 35, Ship Shoal Area, Gulf of Mexico, Federal
Waters, Offshore, Louisiana.

Dear Ms. Goers:

PSI Energy Resources, Inc. proposes to install an 4.500-Inch oil pipeline
originating at its proposed Platform "A" in Ship Shoal Block 37 to a subsea
tie-in point with Unocal's existing 18-Inch pipeline in Ship Shoal Block 35.
The route of the above referenced pipeline right-of-way crosses a portion of
Blocks 37, 36 and 35, Ship Shoal Area, all being in Federal Waters,
Offshore, Louisiana.

Please be advised our company has no objection to the operations proposed.

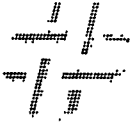
Signature

Company

Address

City State Zip

Date



PSI
Energy Resources, Inc.

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

April 17, 1990

**Unocal Pipeline Co.
P. O. Box 8033
Houma, Louisiana 70361**

Attention: William Mampre

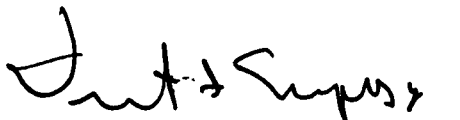

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Signature

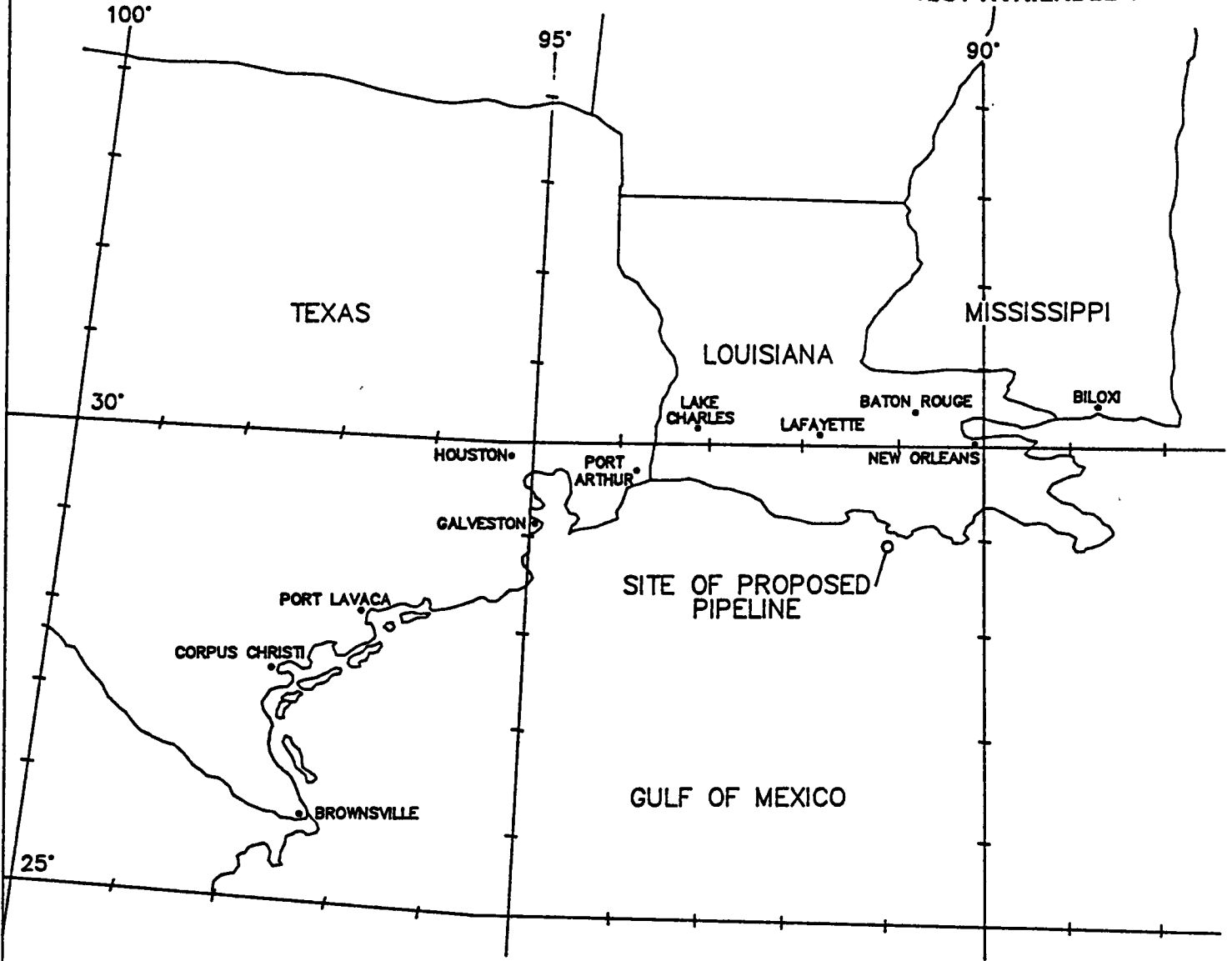
Company

Address

City State Zip

Date

REST AVAILABLE COPY



VICINITY MAP

PROPOSED 4" OIL PIPELINE
GULF OF MEXICO
SHIP SHOAL AREA
BLOCK 37 TO BLOCK 35
APPLICATION BY PSI, INC.

SHEET 1 OF 9

14 MAR 90

BANDERA ENGINEERING INC. DWG. NO. 043-D-A-701

SHIP

SHOAL

AREA

Stn. 227+50.02
 Prop. Hot Tap, Unocal 18" P/L
 X = 2,059,382
 Y = 143,806
 Lat. = 29°03'43.121"N
 Long. = 91°08'50.938"W

Stn. 0+00
 S.S. 37 Well # 3
 X = 2,081,800.00
 Y = 147,678.53
 Lat. = 29°04'21.030"N
 Long. = 91°04'38.256"W

BLOCKLINE CROSSING
 X = 2,062,400.00
 Y = 144,327.37

BLOCKLINE CROSSING
 X = 2,078,000.00
 Y = 147,022.12

STN. 99130.54
 PIPELINE CROSSING
 X = 2,072,014.39
 Y = 145,988.14

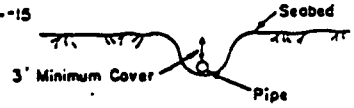
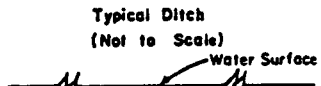
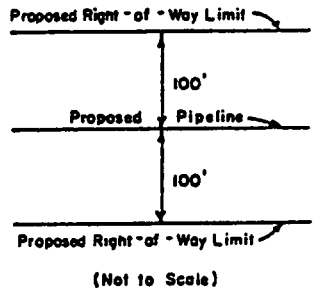
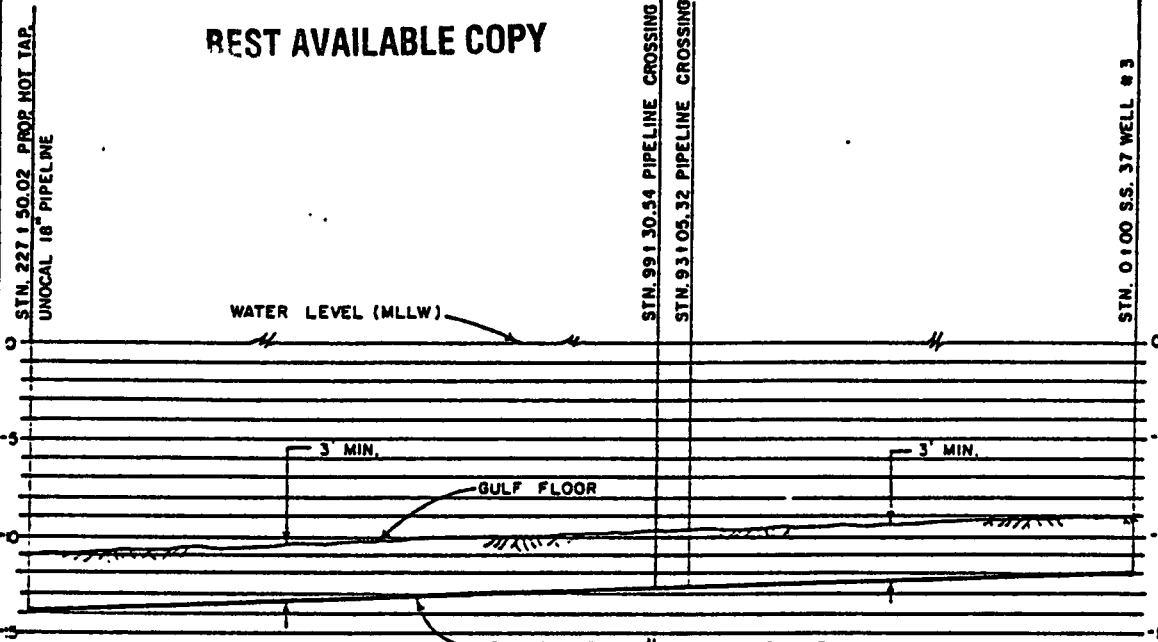
STN. 93105.32
 PIPELINE CROSSING
 X = 2,072,630.48
 Y = 146,094.57

PROPOSED 4" OIL PIPELINE



PLAN: 1" = 4000'

REST AVAILABLE COPY

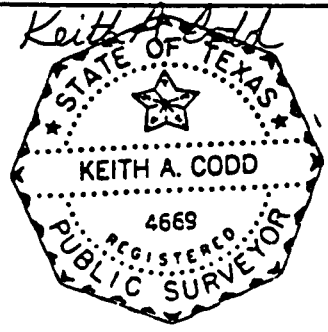


PROFILE:
 Vertical: 1" = 10'
 Horizontal: 1" = 4000'

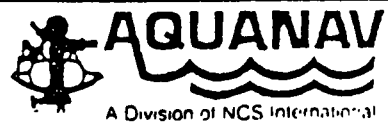
I hereby certify that this plat has been prepared following generally accepted professional standards for proposed offshore pipelines.

Keith A. Codd Tx. Reg. No. 4669

Note: Design characteristics are in accordance with D.O.T. specifications.



DATUM: NAD 27
 SPHEROID: CLARKE 1866
 PROJECTION: LAMBERT
 ZONE: LOUISIANA SOUTH

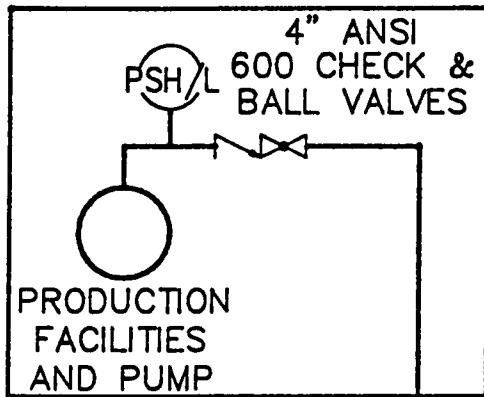


PSI INC.
 PROPOSED 4" OIL PIPELINE
 S.S. 37 WELL # 3 TO PROP. HOT TAP, UNOCAL 18" P/L
 BLOCKS 37, 36, & 35
 SHIP SHOAL AREA

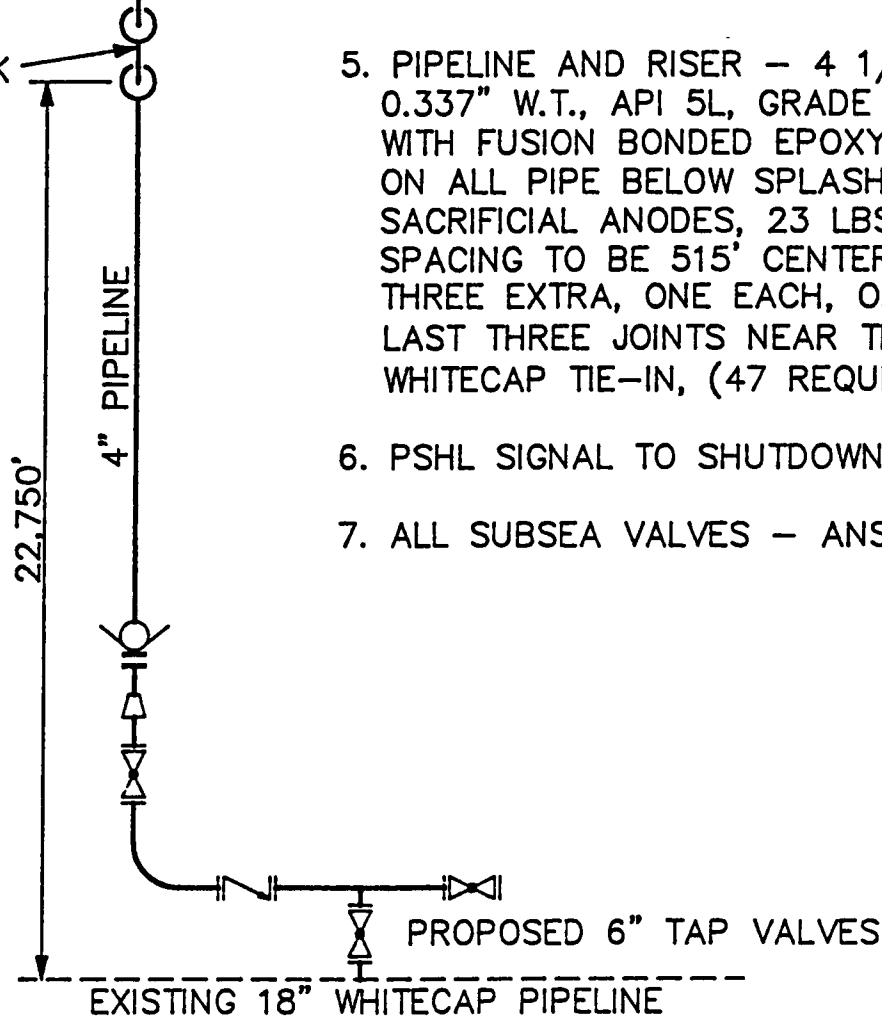
DATE	JOB #
3/07/90	AH9133
SHEET 2 of 9	D.P. # 0411

12-202

PROPOSED PSI
PRODUCTION PLATFORM

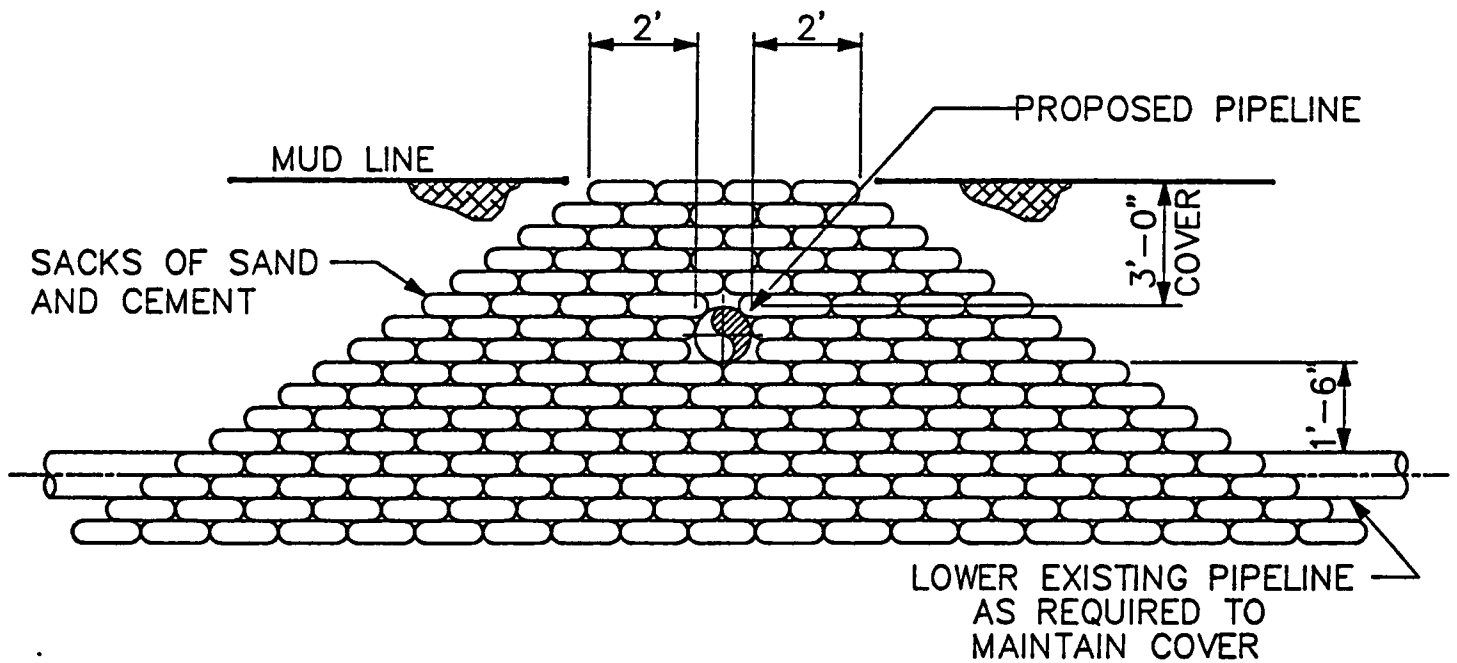


RISERS COATED
WITH 0.500" THICK
RUBBER COATING
IN SPLASH ZONE.



1. PSI PIPELINE FACILITIES COMPLY WITH PART 195, TITLE 49 OF THE CODE OF FEDERAL REGULATIONS.
2. HIGH PRESSURE SENSORS WILL BE SET AT 500 PSIG.
3. LOW PRESSURE SENSORS WILL BE SET AT 50 PSIG.
4. MAOP = 1440 PSIG.
5. PIPELINE AND RISER - 4 1/2" O.D. X 0.337" W.T., API 5L, GRADE B PIPE WITH FUSION BONDED EPOXY COATING ON ALL PIPE BELOW SPLASH ZONE. SACRIFICIAL ANODES, 23 LBS EACH, SPACING TO BE 515' CENTERS, WITH THREE EXTRA, ONE EACH, ON THE LAST THREE JOINTS NEAR THE WHITECAP TIE-IN, (47 REQUIRED).
6. PSHL SIGNAL TO SHUTDOWN SYSTEM.
7. ALL SUBSEA VALVES - ANSI 900.

PROPOSED 4" OIL PIPELINE
GULF OF MEXICO
SHIP SHOAL AREA
BLOCK 37 TO BLOCK 35
APPLICATION BY PSI, INC.



TYPICAL UNDERWATER CROSSING

1. FOR PIPELINES 8 5/8" DIAMETER OR UNDER THE SLOPE SHALL BE 1' VERTICAL TO 2' HORIZONTAL.
2. IF EITHER PIPELINE HAS A DIAMETER GREATER THAN 8 5/8" THE SLOPE SHALL BE 1' VERTICAL TO 3' HORIZONTAL.
3. IF BOTH PIPELINES ARE UNBURIED THE SLOPE SHALL BE 1' VERTICAL TO 3' HORIZONTAL.

PROPOSED 4" OIL PIPELINE
 GULF OF MEXICO
 SHIP SHOAL AREA
 BLOCK 37 TO BLOCK 35
 APPLICATION BY PSI, INC.

APPLICATION BY
PSI, INC.
SHIP SHOAL AREA, BLOCK 37, OCS-G-5041
PIPELINE FROM PRODUCTION PLATFORM TO WHITECAP PIPELINE
GENERAL PIPELINE INFORMATION - 49 CFR 195

- (1) Product to be transported - Oil/Condensate.
- (2) Size, weight and grade of pipe
4.500" O.D., 14.98 LB/FT, Grade B
- (3) Length of line - 22,750 feet
- (4) Water depth - 9 to 11 feet MLW
- (5) Type of corrosion protection - Fusion bond epoxy thin film coating and galvanic anode system.
- (6) Description of protective coating - Fusion bond epoxy coating, 12-14 mils.
- (7) Bulk specific gravity of line (with line empty)
S.G. = 2.12 - (See attached detail sheet 8).
- (8) Anticipated gravity or density of the product
Oil 35° API
- (9) Maximum Allowable Operating Pressure (MAOP)
1440 PSI (See attached detail)
- (10) Hydrostatic pressure and hold time to which the line will be tested after installation. (See attached detail, Sheet 7)
Test pressure 2160 PSI
Test duration 8 - hours
- (11) Size and location of pumps and prime movers
15 HP pump at Block 37 Production Platform

APPLICATION BY
PSI, INC.
SHIP SHOAL AREA, BLOCK 37, OCS-G-5041
PIPELINE FROM PRODUCTION PLATFORM TO WHITECAP PIPELINE
GENERAL PIPELINE INFORMATION - 49 CFR 195

PIPE

4.500" O.D., 0.337" wall, 14.98 LB/FT, API 5L Gr. B, Seamless
line pipe.

MAXIMUM PIPE DESIGN PRESSURE

$$P = (2St/D) \times F \times E \times T$$

Pipeline

S = 35,000 PSI	Grade B
t = 0.337"	
D = 4.500"	
F = 0.72	
E = 1.00	Seamless
T = 1.00	<250 degrees F

$$P = 3,774 \text{ PSI}$$

Riser

S = 35,000 PSI	Grade B
t = 0.337"	
D = 4.500"	
F = 0.66	
E = 1.00	Seamless
T = 1.00	<250 degrees F

$$P = 3,459 \text{ PSI}$$

FLANGED CONNECTIONS

Above Water - ANSI 600

Subsea - ANSI 900

APPLICATION BY
PSI, INC.
SHIP SHOAL AREA, BLOCK 37, OCS-G-5041
PIPELINE FROM PRODUCTION PLATFORM TO WHITECAP PIPELINE
GENERAL PIPELINE INFORMATION - 49 CFR 195

MAXIMUM ALLOWABLE OPERATING PRESSURE

Limited by Flanged Connections - 1440 PSI

HOOP STRESS IN PIPE

$$S = PD/2t$$

Operating P = 200 PSI S = 1,335 PSI

Max. Allowable P = 1440 PSI S = 9,614 PSI

PERCENTAGE OPERATING STRESS OF SMYS

Pipeline or Riser 1,335/35,000 = 3.8%

PERCENTAGE MAX. ALLOWABLE STRESS TO SMYS

Pipeline or Riser 9,614/35,000 = 27.5%

TEST PRESSURE

1.50 x 1,440 PSI = 2,160 PSI

TEST DURATION

8-hr minimum

NON-DESTRUCTIVE TESTING

Radiographic inspection of the entire circumference of 100% of the girth welds, in accordance with API Specification 1104, latest edition.

APPLICATION BY
PSI, INC.
SHIP SHOAL AREA, BLOCK 37, OCS-G-5041
PIPELINE FROM PRODUCTION PLATFORM TO WHITECAP PIPELINE
GENERAL PIPELINE INFORMATION - 49 CFR 195

SPECIFIC GRAVITY (NEGATIVE BUOYANCY) OF PIPELINE (S.G.)

D = Pipe O.D. = 4.500"

W = Weight per foot of pipe = 14.98 LB/FT

dw = Density of Seawater 64 LB/CU FT

A = Cross Sectional Area of Pipe = 0.1104 SQ. FT.

S.G. = $\frac{W}{A \times dw}$ = 2.12

APPLICATION BY
 PSI, INC
 SHIP SHOAL AREA, BLOCK 37, OCS-G-5041
 PIPELINE FROM PRODUCTION PLATFORM TO WHITECAP PIPELINE
 GENERAL PIPELINE INFORMATION - 49 CFR 195

PIPELINE 4.500" O.D. with 12-14 mils fusion bond epoxy thin film coating.

ANODE SYSTEM Galvalum III Tapered Semi-Cylindrical Bracelet Anodes 23 lbs.
 Current Density = 5 ma/ft.²
 Consumption Rate = 9.3# / Amp.-Yr.

PIPELINE EXPOSED AREA 2% Bare Metal

$$A = 22,750 \text{ ft.} \times \frac{4.500 \text{ in.}}{12 \text{ in./ft.}} \times 3.14 \times .02$$

$$A = 535.76 \text{ sq. ft.}$$

REQUIRED CURRENT

$$I = A \times CD$$

$$I = 535.76 \text{ (sq. ft.)} \times .005$$

$$I = 2.68 \text{ Amps.}$$

$$A = \text{Exposed Area (ft.}^2\text{)}$$

$$CD = .005 \text{ Amp./sq. ft.}$$

$$I = \text{Current (Amps.)}$$

EXPECTED LIFE

$$W = L \times I \times R$$

$$L = \text{Life (40 Years)}$$

$$W = \text{Anodes Weight (Total)}$$

$$W = 40 \times 2.68 \times 9.3$$

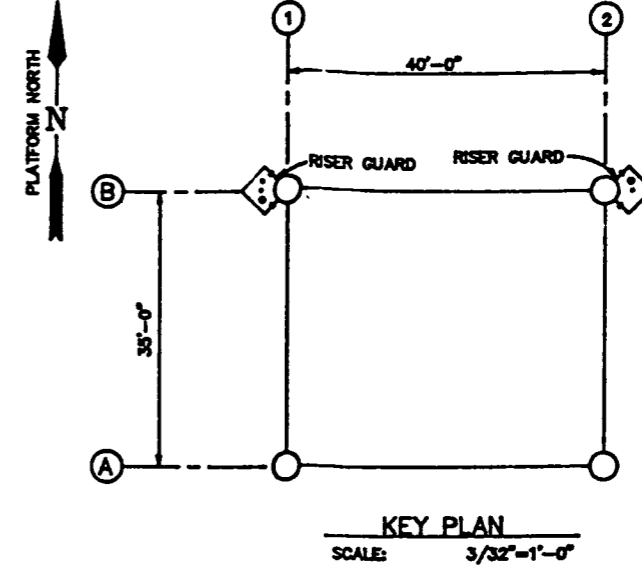
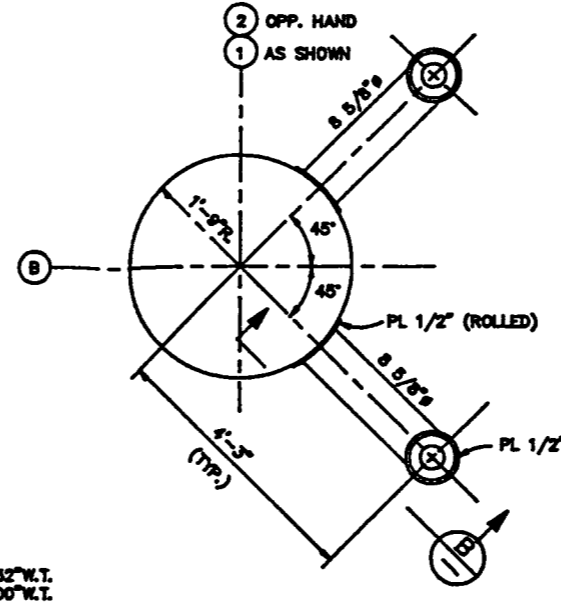
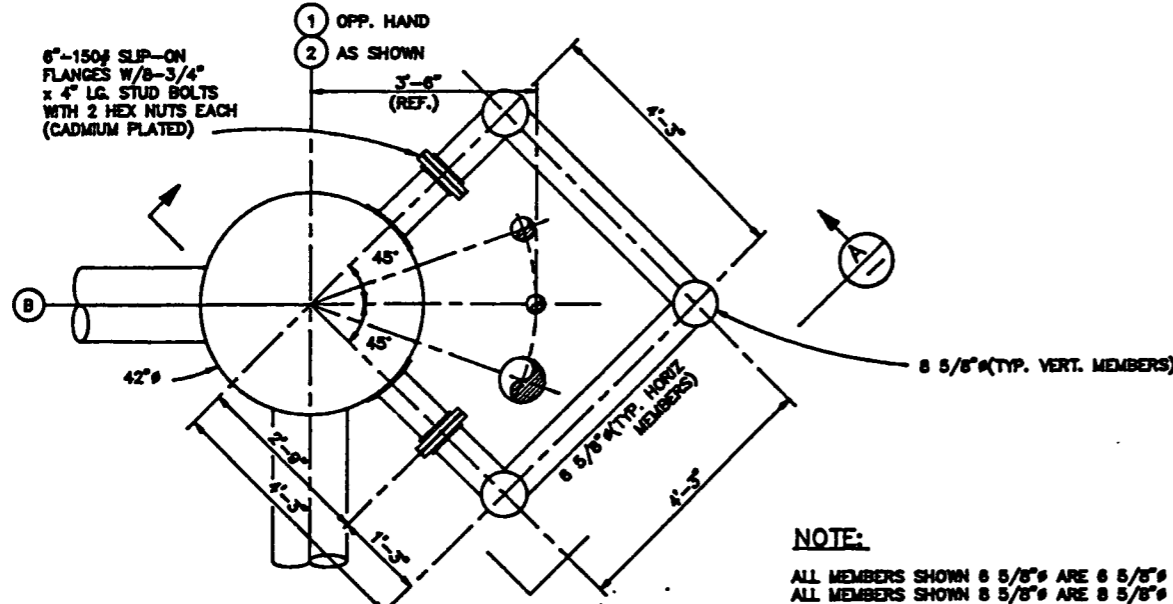
$$I = \text{Current (Amps.)}$$

$$R = \text{Consumption Rate}$$

$$9.3\# / \text{Amp.-Yr.}$$

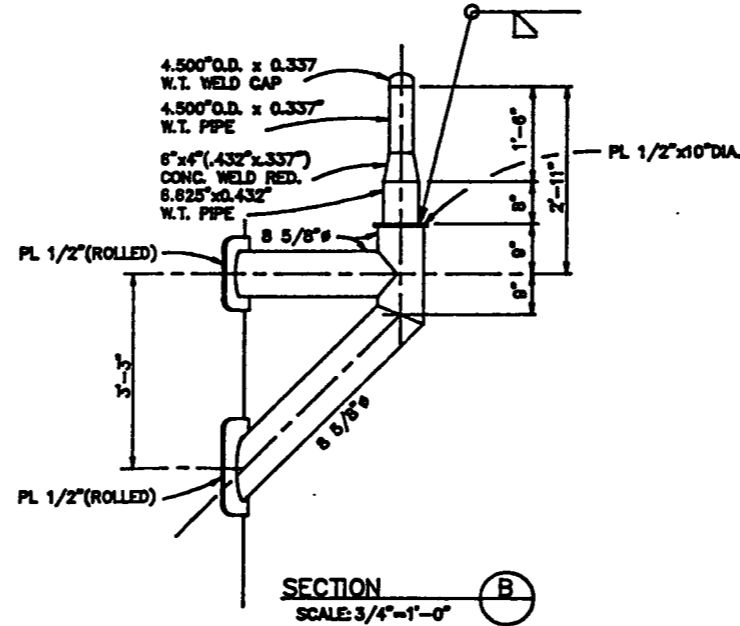
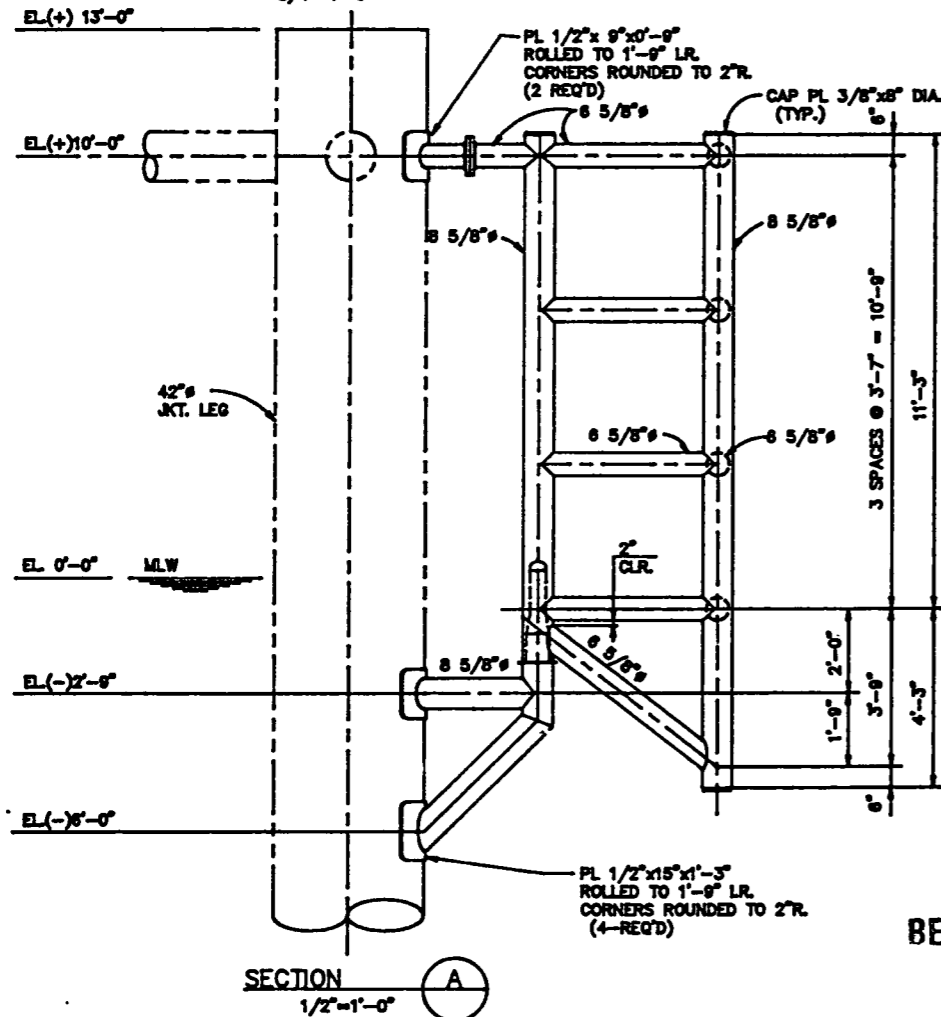
$$W = 996.96$$

Number of Anodes = $\frac{996.96}{23\# \text{ Each}} = 43.35$ use 44 spaced at 515'± plus 3 extra anodes, one each on last three joints near subsea tie-in



NOTE:
ALL MEMBERS SHOWN 8 5/8" ARE 8 5/8" x 0.432"W.T.
ALL MEMBERS SHOWN 8 5/8" ARE 8 5/8" x 0.500"W.T.

NOTE:
TWO RISER GUARDS REQUIRED PER KEY PLAN



ADDITIONAL NOTES:

7. JACKET FABRICATOR TO FURNISH ALL MATERIALS AND FABRICATE ENTIRE RISER GUARD ASSEMBLIES. JACKET FABRICATOR SHALL ALSO INSTALL STAND-OFFS WELDED TO JACKET. TEST FIT EACH ASSEMBLY & MARK EACH RISER GUARD PRIOR TO LOAD OUT OF JACKET.

8. RISER GUARD ASSEMBLIES SHALL BE SHIPPED BY JACKET FABRICATOR TO PIPELINE CONTRACTOR AND ASSEMBLED BY PL CONTRACTOR ON LOCATION AFTER RISER INSTALLATION.

REFERENCE DRAWINGS

063-D-D-614 RISER ELEVATIONS & DETAILS - 6" RISERS
-815 RISER ELEVATIONS & DETAILS - 3" & 4" RISERS
-818 RISER CLAMP DETAILS
1001 JACKET ELEVATIONS (PSI/CBS ENG. DWG.)

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NOTES

1. ALL STRUCTURAL STEEL PLATES TO BE ASTM A 36.
2. ALL PIPE TO BE API 5L GRADE B SEAMLESS.
3. RISER GUARD ASSEMBLY TO BE ALL WELDED CONSTRUCTION UNLESS NOTED.
4. ALL WELDING TO BE IN ACCORDANCE WITH A.W.S. CODE D1-1, CONTINUOUS FULL PENETRATION BEVEL WELDS, UNLESS NOTED OTHERWISE.

5. ALL NUTS AND BOLTS TO BE CADMIUM PLATED.
6. RISER GUARD TO BE COATED WITH AMERON THREE COAT SYSTEM, POLYURETHANE-TOP-COAT.

NO.	DATE	DESCRIPTION	BY	APPV
B	4-90	ISSUED FOR BID		CR
A	4-90	ISSUED FOR APPROVAL		CR

SEAL

Bandera Engineering Inc
HOUSTON, TEXAS

APPROVAL	
Drawn By	JED
Date	3-21-90
Checked	
Date	
Approved	
Date	
Approved	
Date	

PSI INC.
SHIP SHOAL BLOCK 37--PIPELINES
RISER GUARDS @ PRODUCTION PLATF.

JOB NO. 063-10-11	SCALE NOTED	DRAWING NO. 063-D-D-620	REV. B
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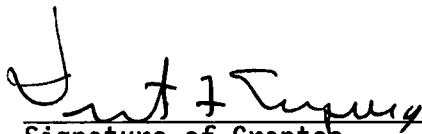
UNITED STATES
DEPARTMENT OF THE INTERIOR
MINERALS MANAGEMENT SERVICE


NONDISCRIMINATION IN EMPLOYMENT

As a condition precedent to the approval of the granting of the subject pipeline right-of-way, the grantee, PSI Energy Resources, 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 of Grantee 

Vice President

April 18, 1990
Date

PIPELINE RIGHT-OF-WAY APPLICATION "ENGINEERING CHECKLIST"
MINERALS MANAGEMENT SERVICE
GOM REGIONAL OFFICE

"As-Built" completed marked in Red

Date: 5-16-90
OCS-G 12293

A. Description of pipeline and location of proposed route (i.e., size of pipe, product to be transported, from where to where, platform number, name, block number, area, and distance in feet and miles): 4 1/2 inch pipeline 22,880' or 7.33 miles from PSI Inc's Platform A in Block 37, across Block 36, to a subsea tie-in with Unocal Pipeline Company's 18 inch pipeline (OCS-G (691) in Block 35, all in the Ship Shoal Area.

B. Safety Flow Schematic - Verify that the information shown on the safety flow schematic diagram contains the following:

- 1. Pressure source is drawn into the schematic with the following:
 - a. source (i.e., name) Pump
 - b. design working pressure _____
 - c. high-low pressure sensor settings 300/50
- 2. "ANSI" ratings of all valves, flanges, and fittings between the source and the connecting pipeline are shown. Ansi 600
- N/A 3. Pressure relief valves, where applicable, are shown with the setting set no higher than the maximum working pressure (MWP) of the vessel.
- N/A 4. If the maximum input source pressure is greater than the maximum allowable operating pressure (MAOP) of the pipeline, redundant safety equipment is required.
- 5. MAOP of proposed pipeline does not exceed MAOP of connecting pipeline. Log # 1196 MAOP 1440
- 6. The pipeline leaving the platform receiving production from the platform is equipped with high-low pressure sensors to directly or indirectly shut-in the well or wells on the platform.
- N/A 7. The pipeline delivering production to the production facilities on the platform is equipped with an automatic fail-close valve tied into the automatic and remote shut-in system.
- N/A 8. The pipeline crossing the platform which does not deliver production to the platform, but which may or may not receive production from the platform, is equipped with high-low pressure sensors connected to an automatic fail-close valve located in the upstream portion of the pipeline at the platform. In addition, the sensors are tied into either the platform's automatic and remote shut-in system or an independent remote shut-in system.

Sending hot tap application

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- 9. The pipeline boarding the platform/pipeline is equipped with a check valve.
- 10. The pipeline leaving the platform is equipped with a check valve.
- 11. The high-low pressure sensors on the departing pipeline is located upstream of the check valve.
- N/A 12. Where applicable, high-low sensors are located downstream of the back pressure regulator.
- N/A 13. If there is liquid injection into the line, are pumps associated with the injection? (Yes or No) _____
- 14. Direction of flow indicated.
- 15. Pipe specifications (i.e., size, grade, weight, and wall thickness).
- 16. Total length of proposed pipeline (feet and miles).
- 17. MAOP of connecting pipeline.
- 18. Statement that design meets or exceeds DOT Regulations 192 or 195, as applicable, and/or applicable OCS orders, registered engineer's seal, registration number, date, and signature.
- 19. Area and block number of proposed pipeline/platform.
- 20. Cathodic protection specifications.

C. Design Information - Verify that the pipeline design information given in the application and/or on the data sheet is complete and correct:

1. Product to be transported: Oil

2. Pipeline, riser, and subsea valve assembly specifications:
- (1) Size 4.5 Wall Thickness 337 Grade B Weight 14.98 lbs/ft.
 - (2) Size _____ Wall Thickness _____ Grade _____ Weight _____ lbs/ft.
 - (3) Size _____ Wall Thickness _____ Grade _____ Weight _____ lbs/ft.

- b. Riser:
- (1) Size _____ Wall Thickness _____ Grade _____ Weight _____ lbs/ft.
 - (2) Size _____ Wall Thickness _____ Grade _____ Weight _____ lbs/ft.
 - (3) Size _____ Wall Thickness _____ Grade _____ Weight _____ lbs/ft.

- c. Subsea valve assembly:
- (1) Size _____ Wall Thickness _____ Grade _____ Weight _____ lbs/ft.
 - (2) Size _____ Wall Thickness _____ Grade _____ Weight _____ lbs/ft.

3. Water depth: Maximum 17 Minimum 9

4. Type of corrosion protection:

a. Impressed current system

b. Sacrificial anode system

(1) Type of anode Galvalum III

(2) Spacing interval 515 ft.

(3) Weight of unit anode given by applicant 23 lbs. ea.

c. If platform anodes are used, are they considered adequate?

Yes _____ No _____

d. If pipeline anodes are used:

Formula: $L_p/I = 3.82 \times 10^4 \times W^0/DIR =$

Where:

W^0 = Weight of Anode unit (lbs)

D = Dia. of pipe (inches)

I = Separation between anodes (ft.)

R = the following lbs/amp/year (Rate of Consumption)

Aluminum or Galvalum = 7.6

Zinc = 26

Magnesium = 17.5

39.5 years

Does the calculated life expectancy equal or exceed 20 years?

Yes No _____

5. Description of protective coating:

a. Pipeline 12 to 14 mils epoxy

b. Riser

c. Subsea valve assembly

N/A 6. Description of weighted coating:

a. Preconcrete coating _____

b. Density of concrete _____ PCF

c. Thickness of concrete _____

d. Thickness of asphalt _____

7. Calculate the specific gravity (one of the following formulae may be used)

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_____ a. For epoxy coating: $SG = 2.865W/D^2$ 2.12

_____ b. Density comparison with fluid material: $SG = \frac{W+P}{\frac{A}{R}}$

_____ c. Lines with a specific thickness of concrete:

$$SG = \frac{RC + K_2 \left(\frac{W+P - RC}{K_3} \right)}{R (T - K_1)}$$

_____ d. Lines having two coatings of enamel and a felt wrap, or only asphaltastic coating:

$$SG = \frac{W+P}{K_3}$$

Where:

- SG = specific gravity
- RC = density of concrete (lb/cu. ft.)
- K₁, K₂, K₃ = coefficients
- T = thickness of concrete coating (inches)
- W = weight of bare pipe (lb/ft)
- P = weight of coating
- R = density of fluid material (lb/cu. ft.): i.e., sea water = 64 lbs/cu. ft.
- D = diameter of pipe (inches)
- A = cross-sectional area

✓ 8. Given specific gravity

a. 2.12 b. _____ c. _____

✓ 9. Gravity or density of product(s) 35° API

10. Design capacity of pipeline 2414

11. Given Hydrostatic Test Pressure: Line Pipe 2160 Hold Time 8 hrs.

Preinstallation Test _____ Riser _____ Hold Time _____ hrs.

Recommended maximum hydrostatic body test for ANSI valves, flanges, and fittings are as follows:

- ANSI 300 - 1,100 psig
- ANSI 400 - 1,450 psig
- ANSI 600 - 2,175 psig
- ANSI 900 - 3,250 psig
- ANSI 1,500 - 5,400 psig

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Note: Minimum hold times:

Gas = Line Pipe = 8 hrs.
 Riser = 4 hrs. (pretest)
 or DOT 192.507(c)

Liquid = 4 hrs. @ 125% of MOP
 Plus 4 hrs. @ 110% if leak inspection is not viable during test

12. Maximum Allowable Operating Pressure (MAOP) of line pipe:

$$MAOP = \frac{2 \pi \times F \times E \times T}{D}$$
 Note: F = .72; E = 1; T = 1

a. MAOP = $\frac{2(35,000)(.337)}{4.5} = 5242 \times .72$
 b. MAOP =
 c. MAOP = 3774

13. MAOP of riser pipe.

Note: F = .50 for risers on natural gas transmission lines.
 Note: F = .60 for risers on liquid pipelines.

a. MAOP = $5242 \times .60 = 3145$
 b. MAOP =

14. MAOP of flanges, fittings, and valves:

2.4 x ANSI rating = Ansi 600

15. MAOP of proposed pipeline as determined in accordance with Title 49 CFR Part 195 or 192, as applicable, is 1440 psig.

16. Items 12, 13, and 14 above are equal to or more than the maximum allowable working pressure (MAWP) of source.

17. Verify: 1.25 maximum source pressure (MSP) \leq hydrostatic test pressure (HTP) \leq .95 (smaller IP @ SMYS of items 12 or 13 above)

$$\underline{2160} \leq \underline{2414} \leq \underline{4980}$$

Note: The recommended limit of test as a percentage of internal pressure @ specified minimum yield strength is equal to 95%:

$$IP @ SMYS = \frac{2 \times 1 \times 1}{D} = 5242$$

18. Verify MAOP does not exceed the lowest of the following:

a. Submerged components: HTP/1.25 =

b. Riser: HTP/1.5 =

$$\frac{2160}{1.25} = 1728$$

$$2414 = 1931$$

19. Valve gun used: Yes _____ No _____

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D. Installation Requirements:

1. All pipelines will be installed or laid to a minimum of three feet below the level of the mudline out to and including the 200 foot water depth, except at pipeline crossings. Any deviation must be justified at the time of application.
2. All valves and taps must be provided with a minimum of three feet of actual cover either with soil or sandbags or jetted to a minimum of three feet below the mudline. If A/S approved valve protection covers are used, the valves and taps are NOT required to have a minimum of three feet of actual cover or jetted three feet below the mudline. However, the top of the valve protection cover shall not protrude above the level of the mudline. Any deviation must be justified at the time of application.

E. Pipeline Crossings:

1. All pipeline crossings in water depths up to and including 200 feet shall be cement-bagged with a minimum of 18 inches between the lines with the uppermost line having a minimum of 3 feet of cover in the form of cement bags installed so as to provide a three foot horizontal to a one foot vertical (3:1) slope with a crown width that is one and one-half (1½) times the pipe diameter. Any deviation must be justified at the time of application.

N/A 2. All pipeline crossings in water depths greater than 200 feet shall be cement bagged with a minimum of 18 inches between the lines and installed so as to provide a three foot horizontal to a one foot vertical (3:1) slope. Any deviation must be justified at the time of application.

F. Construction Information:

1. Proposed construction commencement date June 5, 1990
2. Method of construction
3. Method of burial
4. Time required to lay pipe 12 days
5. Time required to complete project 14 days

G. Applicant complies with current OCS pipeline guidelines:

Yes _____ No _____

UNITED STATES GOVERNMENT
MEMORANDUM

MAY 21 1990

To: Regional Supervisor, Field Operations, GOM OCS Region (FO)
From: Regional Supervisor, Leasing and Environment, GOM OCS Region (LE)
Subject: National Environmental Policy Act Review for Pipeline
Right-of-Way Application OCS-G 12293

Our National Environmental Policy Act (NEPA) review of the subject action is complete. Environmental protective measure(s), if any, identified to avoid or mitigate potential impacts associated with the action were included as part of the NEPA analysis and are shown on the Categorical Exclusion Review (CER).

J. Homer Benton
for J. Kenneth Adams

Attachment

cc: Pipeline File OCS-G 12293 (LE-5)

United States Department of the Interior
 Minerals Management Service
 Gulf of Mexico OCS Region

NEPA CATEGORICAL EXCLUSION REVIEW

The Categorical Exclusion Review (CER) evaluated the proposed action(s) and determined that it meets the categorical exclusion criteria as defined by 516 DM 2.3A(1) which states "(a) The action or group of actions would have no significant effect on the quality of the human environment, and (b) The action or group of actions would not involve unresolved conflicts concerning alternative uses of available resources." The exclusion of this activity from future environmental analysis is conditioned on the imposition of the following mitigative measure(s). These measures are to ensure environmental protection, consistent environmental policy, and safety as required by the NEPA.

Environmental Protective Measures

The following measure was identified in the plan/application by the lessee/operator submitting the proposal: None.

The measures identified by MMS during the plan/application review or in the lease stipulation were:

Our analyses indicate the following as potential hazards to the proposed activities. Therefore, precautions in accordance with NTL No. 83-3, Section IV.B, will be taken prior to conducting operations.

Pipelines

<u>Name</u>	<u>Diameter (inches)</u>	<u>Block</u>	<u>Area</u>
Mobil	8	36	Ship Shoal
Transco	14	36	Ship Shoal
Pure	18	35	Ship Shoal
Trans Tex	3	37	Ship Shoal
Texas	3	26	Ship Shoal
Unknown (Abandoned)	2	26	Ship Shoal

Magnetic Anomalies and/or Side-Scan Sonar Contacts

<u>Blocks</u>	<u>Line No.</u>	<u>Shot Point</u>	<u>Remarks or Amplitude (gammas)</u>
37	8	8.9	18 g
37	11	442.7	24 g
35	17	509.0	41 g

The unidentified magnetic anomalies or side-scan sonar contacts listed below may represent archaeological resources. In accordance with NTL No. 75-3 (Revision No. 1, Enclosure No. 3), the applicant will either determine that the potential archaeological resources do not have historic significance, or they will avoid them when conducting proposed activities as indicated by the avoidance criteria below:

<u>Blocks</u>	<u>Line No.</u>	<u>Shot Point</u>	<u>Avoidance Criteria</u>
36	4A	194.1	76 m
36	4A	191.5	76 m
35	5	263.1	152 m
36	6	279.7	76 m
36	6	281.6	76 m

Exclusion Determination

The proposed action was evaluated and reviewed against the CER exception criteria defined by 516 DM 2.3.A(3). With inclusion of the above mitigation, it does not represent an exception to the categorical exclusions. Therefore, preparation of an EA is not required.

5/22/90 [Signature] 5/22/90 [Signature]
 Date Preparer Date Chief, Environmental Operations Section

I concur.

5-22-90
 Date

[Signature] Acting
 Regional Supervisor,
 Leasing and Environment