

RUSTY CLARK SURVEY COMPANY, INC.

LAL-09910619-GS
LAL-10910634-MS
LAL-11910710-GS
LAL-01920065-MS
LAL-03920113-GS

SEPTEMBER 26, 1991
OCTOBER 06, 1991
NOVEMBER 10, 1991
FEBRUARY 01, 1992
MARCH 04, 1992

Report of Sub-Surface Directional Survey

STATE OF LOUISIANA

JUN 11 1992

AVANTI SERVICES INC. STATE OF LOUISIANA
OF COURTESY TRUST

TURNKEY FOR I.P. PETROLEUM COMPANY, INC.

213712

ADAM NUNEZ, WELL NO. 1 SIDETRACK

LITTLE CHENIER, CAMERON PARISH, LA.

SURVEY FROM SURFACE TO 11,495 FEET MD.

P.O. BOX 100

BREAUX BRIDGE, LOUISIANA 70517

PHONE (318) 237-7593

INTERPOLATED DATA FOR EVERY 100.00 FEET OF TRUE VERTICAL DEPTH

SUB SEA DEPTH	MEASURED DEPTH	TRUE VERTICAL DEPTH	VERTICAL SECTION	C O O R D I N A T E S		C L O S U R E		
						DISTANCE	D	M
8979.00	9029.78	9000.00	463.94	218.14 N	428.00 W	480.38	N 63	0 37 W
9079.00	9129.81	9100.00	465.56	218.73 N	429.65 W	482.12	N 63	1 11 W
9179.00	9229.86	9200.00	468.39	220.08 N	432.24 W	485.04	N 63	0 58 W
9279.00	9329.96	9300.00	472.43	221.51 N	436.38 W	489.39	N 63	5 14 W
9379.00	9430.16	9400.00	478.59	224.99 N	441.54 W	495.56	N 63	0 55 W
9479.00	9530.43	9500.00	485.87	230.07 N	446.77 W	502.53	N 62	45 13 W
9579.00	9630.71	9600.00	493.27	235.56 N	451.78 W	509.50	N 62	27 43 W
9679.00	9730.90	9700.00	499.40	240.29 N	455.76 W	515.23	N 62	12 2 W
9779.00	9831.04	9800.00	504.57	244.30 N	459.11 W	520.07	N 61	58 54 W
9879.00	9931.16	9900.00	509.39	248.22 N	462.08 W	524.53	N 61	45 23 W
9979.00	10031.25	10000.00	513.20	252.12 N	463.69 W	527.80	N 61	27 56 W
10079.00	10131.34	10100.00	516.11	256.27 N	463.86 W	529.95	N 61	4 52 W
10179.00	10231.43	10200.00	518.29	260.52 N	462.96 W	531.23	N 60	37 57 W
10279.00	10331.52	10300.00	519.76	264.43 N	461.42 W	531.82	N 60	10 60 W
10379.00	10431.59	10400.00	520.50	267.63 N	459.53 W	531.78	N 59	46 59 W
10479.00	10531.64	10500.00	520.84	270.18 N	457.70 W	531.49	N 59	26 49 W
10579.00	10631.68	10600.00	520.80	272.19 N	455.83 W	530.91	N 59	9 26 W
10679.00	10731.72	10700.00	520.18	273.65 N	453.68 W	529.82	N 58	54 9 W
10779.00	10831.75	10800.00	519.09	274.73 N	451.22 W	528.28	N 58	39 51 W
10879.00	10931.80	10900.00	517.57	275.61 N	448.39 W	526.32	N 58	25 19 W
10979.00	11031.85	11000.00	515.75	276.35 N	445.27 W	524.05	N 58	10 29 W
11079.00	11131.89	11100.00	514.23	277.17 N	442.48 W	522.12	N 57	56 12 W
11179.00	11231.93	11200.00	513.20	278.27 N	440.11 W	520.70	N 57	41 46 W
11279.00	11331.96	11300.00	512.32	279.57 N	437.76 W	519.41	N 57	26 10 W
11379.00	11432.00	11400.00	511.25	280.85 N	435.15 W	517.92	N 57	9 41 W

LOWEST SURVEY DATA AVAILABLE

11441.97	11495.00	11462.97	510.41	281.57 N	433.37 W	516.81	N 56	59 13 W
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State of Louisiana



EDWIN W. EDWARDS
GOVERNOR

JOHN F. ALES
SECRETARY

DEPARTMENT OF NATURAL RESOURCES

December 17, 1993

C. H. Fenstermaker and Assoc., Inc.
Attn: Patrick Navratil
P.O. Drawer 57089
New Orleans, LA 70157-7089

CERTIFIED MAIL
NO. 167116

**RE: P930799, Transferred Coastal Use Permit Application
Kaiser-Francis Oil Company, To construct 1 160' x 272' ring levee adjacent to an existing
ring levee to drill the Adam Nunez No. 1 Well at Lat. 29°49.47.426', Long. 92°56'35.281" in Sec.
13, T14S-R07W, approx. 5 miles NE of Grand Chenier Cameron Parish, LA
GP-3 determination of August 26, 1993.**

Dear Mr. Navratil:

Pursuant to the Rules and Procedures for Coastal Use Permits Part V.B(1), you are hereby notified that the referenced activity is authorized by Coastal Use Permit GP-3.

This determination is valid for two (2) years from the date of this letter. You must notify the Coastal Management Division of the date on which initiation of the proposed activity began by mailing the enclosed green initiation card on the date of initiation of the proposed activity. If the proposed activity is not initiated within a two year period, this determination will expire and a new application will be required. This authorization does not eliminate the need to obtain a permit from the United States Army, Corps of Engineers or any other Federal, state, or local approval, that may be required by law.

This opinion has been made on the basis of information provided by your application. If it is later established that you furnished erroneous data, you may be directed to alter or modify your plans, to remove structures you have installed, and/or to restore the work area to pre-project conditions at your own expense. If it is established that you knowingly furnished erroneous data, you could also be subject to legal action.

The drawings submitted with your referenced application are attached hereto and made a part of the record.

Sincerely,

Handwritten signature of Terry W. Howey in cursive.

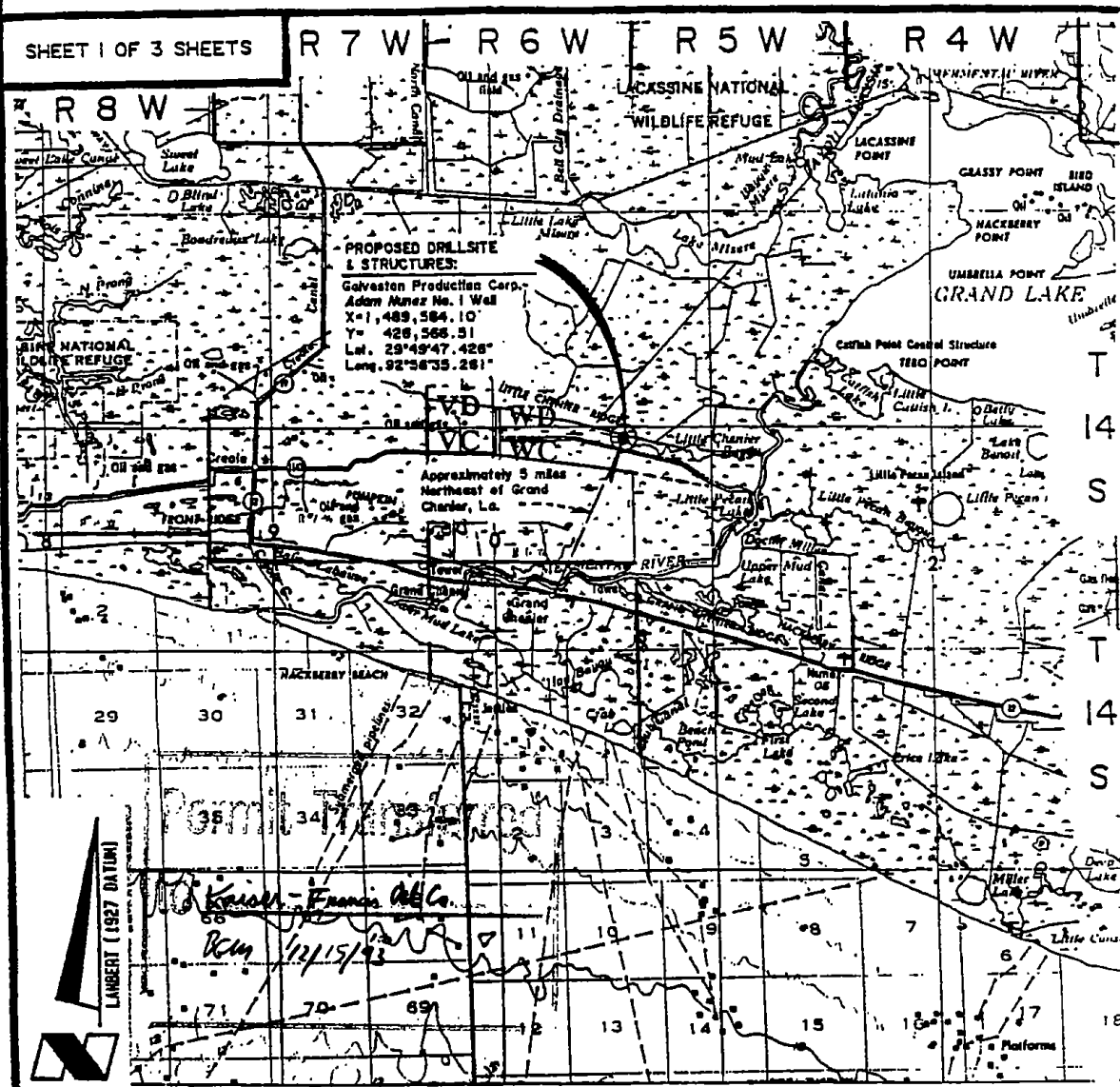
Terry W. Howey
Administrator

TWH/BGM/dcj

attachments

cc: Ron Ventola, COE w/plats
Fred Dunham, LDWF w/plats
John Stacy; CMD/FI w/plats
Linda Betz; OC w/plats
Tina Horn, Cameron Parish w/plats

P930799
 FINAL PLATS
 BDM 8/25/93



Revised: 8/6/93
 8/24/93

Topography obtained from U.S. Geological Survey Quadrangle
 "PORT ARTHUR, TEXAS, LOUISIANA", 1956 Edition-Revised
 1973.

VICINITY MAP
 Scale 1:250,000

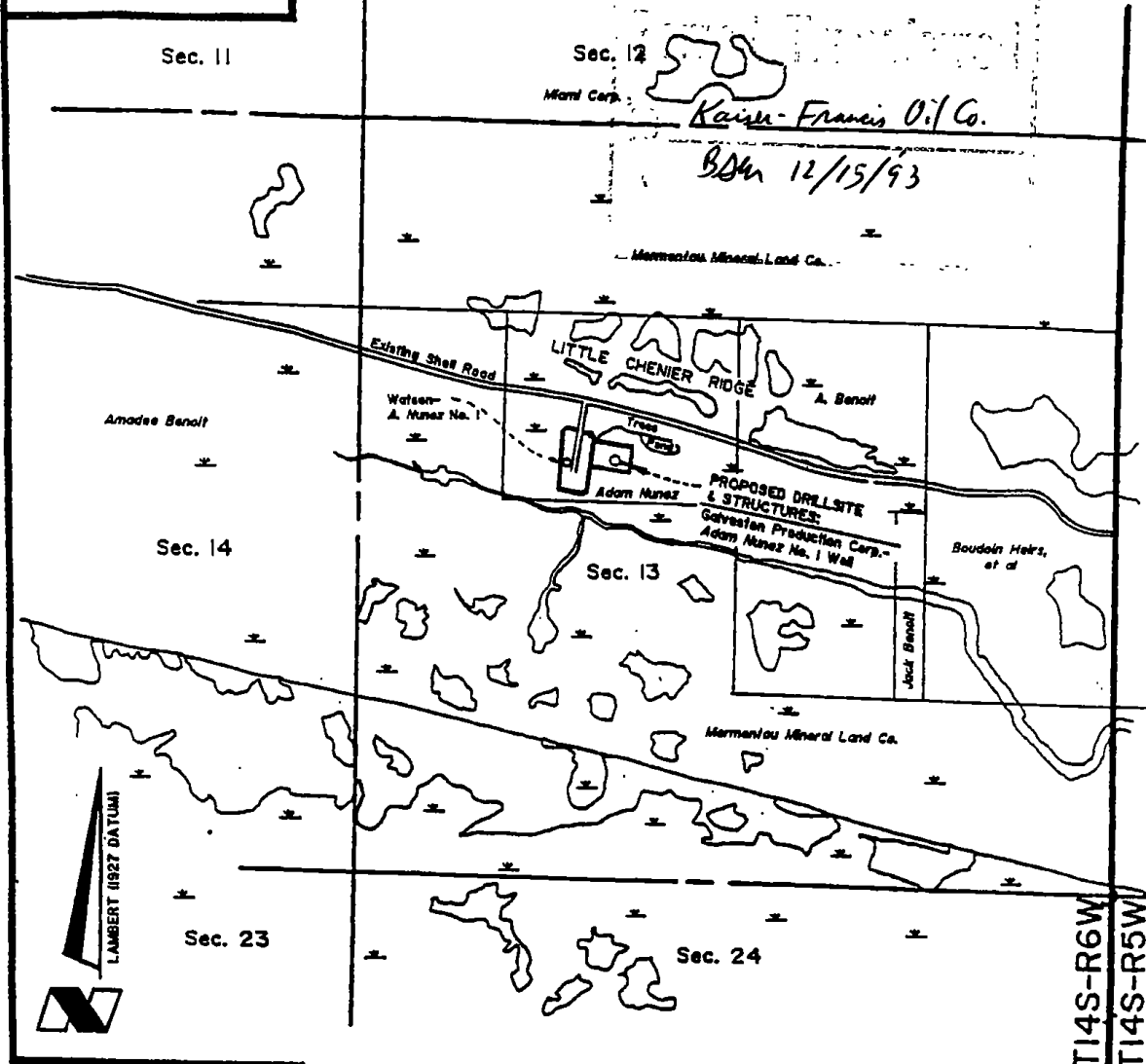
DRAWN BY: K.J

Application By:
GALVESTON PRODUCTION CORP.
 1250 First City Bank Building
 Houston, TX. 77002
 June 30, 1993

PROPOSED DRILLSITE & STRUCTURES
 For Drilling Adam Nunez No. 1 Well
 Section 13, T14S-R6W
 Cameron Parish, Louisiana

PREPARED BY: C. H. Fenstermaker & Associates, Inc., Lafayette & New Orleans, Louisiana.

SHEET 2 OF 3 SHEETS



T14S-R6W
T14S-R5W

Revised: 8/6/93
8/24/93

Topography obtained from U.S. Geological Survey Quadrangle
"GRAND CHENIER, LA.", 1980 Edition, & C.H. Fenstermaker &
Associates Survey.

Scale: 1" = 1000'

Application By:
GALVESTON PRODUCTION CORP.
1250 First City Bank Building
Houston, TX. 77002
June 30, 1993

PROPOSED DRILLSITE & STRUCTURES

For Drilling Adam Nunez No. 1 Well
Section 13, T14S-R6W
Cameron Parish, Louisiana

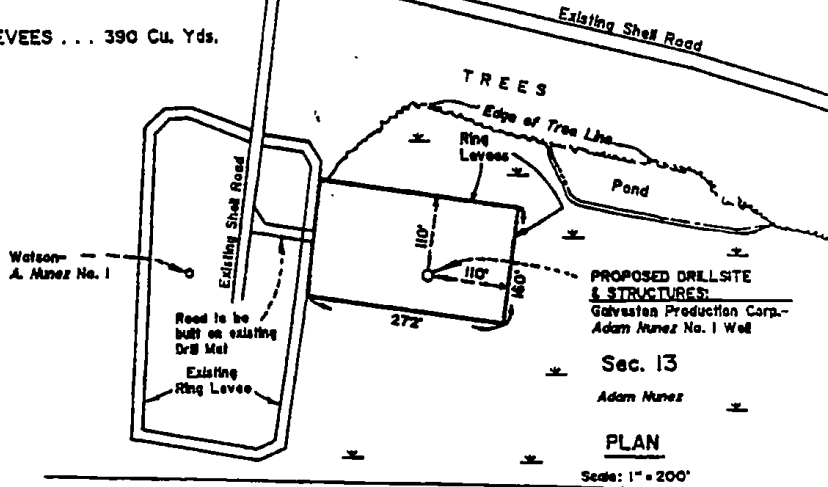
PREPARED BY: C. H. Fenstermaker & Associates, Inc., Lafayette & New Orleans, Louisiana.

SHEET 3 OF 3 SHEETS

R 6 W

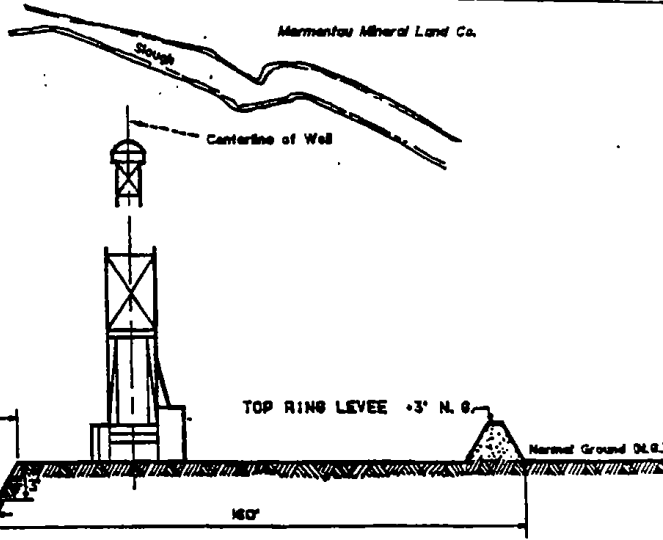
T
14
S

TOTAL FILL FOR RING LEVEES . . . 390 Cu. Yds.



Scale: 1" = 200'

NOTE: This location is a re-entry of the previously drilled LP, Petroleum-Adam Nunez No. 1 Well (P910430).



TYPICAL CROSS-SECTION OF DRILLSITE
NO SCALE

Revised: 6/8/93
6/24/93

Application By:
GALVESTON PRODUCTION CORP.
1250 First City Bank Building
Houston, TX. 77002
June 30, 1993

PROPOSED DRILLSITE & STRUCTURES

For Drilling Adam Nunez No. 1 Well
Section 13, T14S-R6W
Cameron Parish, Louisiana

PREPARED BY: C. H. Fenstermaker & Associates, Inc., Lafayette & New Orleans, Louisiana.

GALVESTON PRODUCTION CORPORATION
ADAM NUNEZ NO. 1 WELL
SECTION 13, T14S - R6W
CAMERON PARISH, LA

MITIGATION PLAN

1. Permittee shall provide compensatory mitigation for the unavoidable loss of wetlands at the project site by the purchase and delivery of five (5) 6' X 18' armour-flex cellular concrete mats. The permittee will provide the mats to the Rockefeller Wildlife Refuge to be installed on the perimeter of Unit No. 4. This project has been recommended by Mr. Thomas J. Hess of the Rockefeller Refuge, Route 1, Box 20-B, Grand Chenier, LA 70643, (318)538-2276. Mr. Hess has indicated that this project will benefit approximately 5660 acres of marsh from the risk of erosion.
2. Placement of the mats will be at the discretion of the Rockefeller Refuge, however, they will be located in the vicinity identified on the enclosed map.
3. Permittee will initiate the mitigation within 60 days of the initiation of work.
4. Permittee will notify this Corps of Engineers (COE) District Office, in writing, of the date when the mitigation was completed. The Rockefeller Wildlife Refuge Supervisor will notify the COE District Office, in writing, when the permittee has completed all mitigation requirements.

Kaiser-Francis Oil Co.
BDM. 12/15/93

State of Louisiana



EDWIN W. EDWARDS
GOVERNOR

JOHN F. ALES
SECRETARY

DEPARTMENT OF NATURAL RESOURCES

December 17, 1993

C.H. Fenstermaker and Associates, Inc.
Attn: Patrick Navratil
P.O. Drawer 57089
New Orleans, LA 70157-7089

CERTIFIED MAIL
NO. 16715

RE: P930799, Coastal Use Permit
Kaiser-Francis Oil Company,
To construct a 160' x 272' ring levee adjacent to an existing ring levee to
drill the Adam Nunez No. 1 well at Lat. 29°49'47.426", Long. 92°56'35.281",
in Sec. 13, T14S-R07W, approx. 5 miles NE of Grand Chenier
Cameron Parish, LA

Dear Mr. Navratil:

Thank you for notifying the DNR Coastal Management Division (CMD) of
the transfer of the above mentioned permit to Kaiser-Francis Oil Company.
CMD will require that Kaiser-Francis Oil Company assume full responsibility
for conducting this project according to the approved Louisiana Coastal
Resources Program and abide by all conditions on this permit.

Sincerely,

A handwritten signature in cursive script that reads "Terry W. Howey".

Terry W. Howey
Administrator

TWH/BM/dcj

Attachments

cc: Ron Ventola, COE w/plats
Fred Dunham, LDWF w/plats
John Stacy, CMD/FI w/plats
Linda Betz, OC w/plats
Tina Horn, Cameron Parish w/plats
Galveston Production Company

State of Louisiana



EDWIN W. EDWARDS
GOVERNOR

JOHN F. ALES
SECRETARY

DEPARTMENT OF NATURAL RESOURCES

H. W. THOMPSON
COMMISSIONER AND
ASSISTANT SECRETARY

JANUARY 10, 1994

KAISER-FRANCIS OIL COMPANY
PO BOX 21468
TULSA, OK 74121

RE: CAMERON PARISH
LITTLE CHENIERE FIELD
ADAM NUNEZ NO. 001
SER NO. 216489

GENTLEMEN:

WE ARE ISSUING PERMIT TO DRILL FOR THE ABOVE REFERENCED WELL WITH THE UNDERSTANDING THAT YOU WILL FURNISH THE APPROPRIATE DISTRICT MANAGER WITH A DIRECTIONAL SURVEY AS PROOF THAT THE WELL HAS BEEN DRILLED IN COMPLIANCE WITH THE PROVISIONS OF STATEWIDE ORDER NO. 29-B, SECTION XVIII, PARAGRAPH 3, DATED MARCH 1, 1967.

IN ADDITION, THERE CAN BE NO COMPLETION IN ANY POOL IN WHICH THE LOCATION IS NOT IN COMPLIANCE WITH THE PROVISIONS OF STATEWIDE ORDER NO. 29-E. IN THE EVENT THE WELL IS A PRODUCER, NO ALLOWABLE WILL BE ASSIGNED UNTIL A SUITABLE UNIT HAS BEEN FORMED IN COMPLIANCE WITH THE PROVISIONS OF STATEWIDE ORDER NO. 29-E.

ALSO, THERE CAN BE NO COMPLETION IN ANY RESERVOIR WHICH IS NOT IN COMPLIANCE WITH THE PROVISIONS OF THE LOUISIANA OFFICE OF CONSERVATION ORDERS OF THE 645 SERIES, FOR THE ABOVE CAPTIONED FIELD AND PARISH.

VERY TRULY YOURS,

H. W. THOMPSON
OFFICE OF CONSERVATION

BY

Handwritten signature of Felix J. Boudreaux in cursive script.

FELIX J. BOUDREAUX
DIVISION MANAGER

FJB:LB

CC: JOHN E. CALDWELL, JR.
OFFICE OF CONSERVATION, P.O. BOX 94275, BATON ROUGE, LOUISIANA 70804-9275 PHONE: (504) 742-5540
LAFAYETTE, DISTRICT MANAGER

AN EQUAL OPPORTUNITY EMPLOYER

STATE OF LOUISIANA
OFFICE OF CONSERVATION
LOUISIANA STATE POTENTIAL REPORT

RECEIVED

JUN 28 1994

OFFICE OF CONSERVATION
INPUT TYPE
LAFAYETTE, LOUISIANA

District LAFAYETTE
Field LITTLE OBERVIE
Parish CADDOUS
Operator KAISER-FRANCOIS OIL CO Code _____
Sec. 13 TWP. 145 RGE. 64 Test Date 6 16 94
12 Mo. Day Yr.

RECEIVED

TYPE OF WELL 2 JUN 29 1994
1-Office of Conservation
2-GAS Well Files
Baton Rouge, LA

TYPE OF TEST
1 1-COMPLETION
19 2-RECOMPLETION
3-RETEST

PRODUCING METHOD
F F-FLOWING
20 P-PUMPING
G-GASLIFT

WELL SERIAL NO.	WELL NAME	WELL NO.	NAME OF RESERVOIR
<u>216489</u>	<u>A. NUNEZ</u>	<u>1</u>	<u>10350 sd.</u>

TOTAL DEPTH	PERFORATED INTERVAL FROM	PERFORATED INTERVAL TO	CHOKE /64"	OIL BBL/DAY	COND. BBL/DAY	GAS MCF/DAY	GAS/OIL RATIO CF/BBL
<u>11494</u>	<u>10357</u>	<u>10363</u>	<u>10</u>		<u>12.44</u>	<u>1554</u>	<u>115625/1</u>

API GRAV. @ 60° F.	WATER BBL/DAY	BS&W %	FLOWING PRES. (PSIG)	CASING PRES. (PSIG)	DATE OF COMPLETION		
					MO.	DAY	YR.
<u>45</u>	<u>0</u>	<u>0</u>	<u>5150</u>	<u>0</u>	<u>5</u>	<u>20</u>	<u>94</u>

CLOSE TANK / METER GAUGE 11' 2" @ 800 TIME
OPEN TANK / METER GAUGE 10' 6" @ 800 TIME
DIFFERENCE 8" in 2.4 HOURS
TANK / METER NO. 232009 TANK COEF. 1.68

STATIC PRES. 873 DIFFERENTIAL PRES. 48 LINE SIZE 3.00
PLATE SIZE 1.00 COEFFICIENT 3.125 METER SPRING & DIFF. RANGE 1500/10
REMARKS OIL: KPCY GAS: LA RES.

WITNESSED BY [Signature] GAUGED BY S. L. Nunez
TITLE _____ TITLE Field Operator

C. H. FENSTERMAKER & ASSOCIATES, INC.

P. O. BOX 52106
LAFAYETTE, LOUISIANA 70505

(318) 237-2200

REFERENCE NO.	40434
DATE	01/03/94
VENDOR NO.	344

VOUCHER	INVOICE DATE	INVOICE NUMBER	INVOICE AMOUNT	DISCOUNTS	PREVIOUS PAYMENTS	NET AMOUNT
	01/03/94	Job #8091	- Kaiser Francis Oil Co.			\$1,000.00
TOTAL						\$1,000.00



C. H. FENSTERMAKER & ASSOCIATES, INC.
CIVIL ENGINEERS, LAND SURVEYORS AND ENVIRONMENTAL CONSULTANTS
P. O. BOX 52106
LAFAYETTE, LOUISIANA 70505

0040434

84-40
652

CHECK DATE	REFERENCE NO
01/03/94	40434

AMOUNT
\$1,000.00

36

PAY: One Thousand, and 00/100 Dollars

TO: LA Office of Conservation
Post Office Box 51285
Lafayette, LA 70505

1000915

VOID IF PRESENTED
AFTER 180 DAYS

FIRST NATIONAL BANK
LAFAYETTE, LOUISIANA

Spencer M. Dodd

⑈040434⑈ ⑆065200405⑆ 0003 30664⑈



Corporate Headquarters New Orleans Office
135 Regency Square Energy Center, Suite 1550
Post Office Box 52106 Post Office Drawer 57089
Lafayette, Louisiana 70505 New Orleans, Louisiana 70157-7089
(318) 237-2200 (504) 582-2201
(318) 232-3299 Telecopier (504) 582-2210 Telecopier

January 3, 1994

C.H. Fenstermaker & Associates, Inc.

Civil Engineers Environmental Consultants Land Surveyors

Mr. Jay Caldwell
LA Office of Conservation
P. O. Box 51258
Lafayette, LA 70505

RE: KAISER-FRANCIS OIL COMPANY
ADAM NUNEZ NO. 1 WELL
PROPOSED WELL LOCATION
SECTION 13, T14S-R6W
CAMERON PARISH, LOUISIANA

Dear Mr. Caldwell:

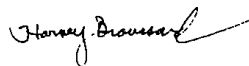
Please find enclosed permit cards, plats and a check in the amount of \$1,000.00 for application to drill the above referenced well. The location falls inside the "Coastal Zone Management" and has been issued Coastal Use Permit P930799 and Corps of Engineers NOD-13.

Kaiser-Francis requests that we expedite this matter and would appreciate it if Conservation would Federal Express the necessary paper work to Baton Rouge in the enclosed, addressed Federal Express Priority Letter package with our account being charged.

Thank you for your assistance in this matter and if you have any questions please do not hesitate to contact me at (318)237-2200.

Sincerely,

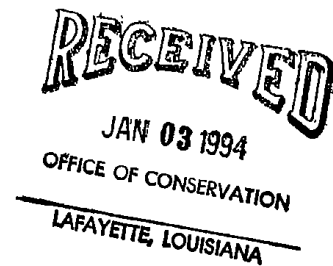
C. H. FENSTERMAKER & ASSOCIATES, INC.



Harvey Broussard

JHB/jc

Enclosure
cc: File #8091con.jhb



FAPRMA

P A R S S Y S T E M (AMENDED PERMIT TO DRILL)

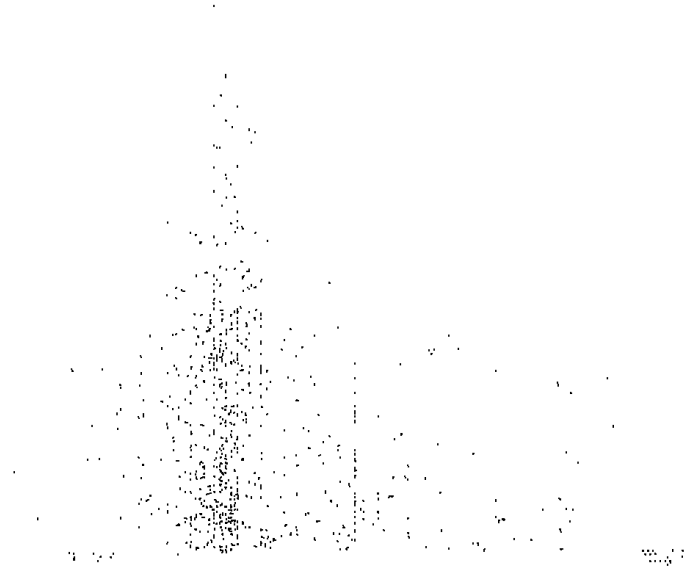
Date:01/03/94

213712 Date Effective 99/99/99 End Serial 000000 Paid (N)
 (213712)
 012 Parish CAMERON Status 29 Status Dt 04/09/92
 6060 Field LITTLE CHENIERE 01 WELLS = API 17023225420000
 2954 Operator IP PETROLEUM COMPANY, INC. Rept I 00000 Permit Dt 08/20/91
 Address PRODUCTION DEPARTMENT Sf Loc Zn S X 1489565 Y 0426614
 0 Product P. O. BOX 4258 Perf1 00000-00000 Tot Dep 13051
 MA
 City/State HOUSTON, TX Zip Code 77210
 0 000000 LUW Well Name ADAM NUNEZ Well Number 001
 Location 013/ 14S/ 06W Reservoir Method Changed WH-1
 Remarks (_____)
 (_____)
 (_____)
 (_____)

Doc Order 29B-1,29E,29E-U,645_

TIP Printer (0050)

Function (I)



FASTRD	SECTION 013 (013)	TOWNSHIP 14S (14S)	RANGE 06W (06W)		DATE: 01/03/94			
PAR SERIAL	ST	FIELD	OPER	WELL NAME	WELL NO	UPPER	LOWER	T-DEP
012 042184	29	6060	9999	MERENTAU MIN & LAND CO	002			10005
012 055978	29	9733	6134	AMADEE BENOIT	001			10005
012 060601	29	9733	6134	MERMENTAU MINERAL LAND CO	002			9960
012 083026	29	6060	3221	MERMENTAU MINERAL & LAND CO	002			10600
012 152479	29	9733	9999	MERMENTAU MIN LD CO	001			9860
012 155268	30	6060	6279	6600 RA SUA;BOUDOIN	001	6651	6656	9535
012 157782	64	6060	U002	5300 RA VUA;A NUNEZ	001	5308	5315	9004
012 159473	29	6060	6279	A NUNEZ	002			5087
012 170925	29	6060	6279	J P BOUDOIN	002			5926
012 173652	29	6060	6279	E BOUDOIN HEIRS	001			6925
012 178036	30	6060	2083	MERMENTAU MINERAL & LAND CO	001	8178	8180	9520
012 184449	30	6060	2083	AMPH B RD SUA;MERMENTAU E	002			9450
012 185167	30	6060	2083	U AMPH B RB SUA;MERMENTAU E	002D	6954	6958	9460
012 187315	29	6060	2155	MERMENTAU E	003			9443
012 197469	10	6060	G039	MERMENTAU MINERAL LAND CO	002	7069	7084	7765
012 213712	29	6060	2954	ADAM NUNEZ	001			13051
012 215824	10	6060	G039	MERMENTAU MINERAL LAND CO	001	7088	7100	8129

FSCOUT

Conservation Scout Reporting

Report Date: 08/20/91 DATE: 01/03/94
Act:(I) Well: 213712 ADAM NUNEZ
(213712)
Report Status: 1 PERMITTED - 91/08/20 Well Number: 001
Operator: 2954 IP PETROLEUM COMPANY, INC. Sct/Twn/Rng: 013/14S/06W
Field: 6060 LITTLE CHENIERE Depth: 00000
Doc Order: 29B-1,29E,29E-U,645

Scout Report Detail

2382.6' FNL & 1831.7' FWL OF SEC 13. PBHL: 2090'
FNL & 1450' FWL OF SEC 13.

U I C S Y S T E M (Operator Address) Date:01/03/94
Operator Code 3179 Record Number 00 Function (1)

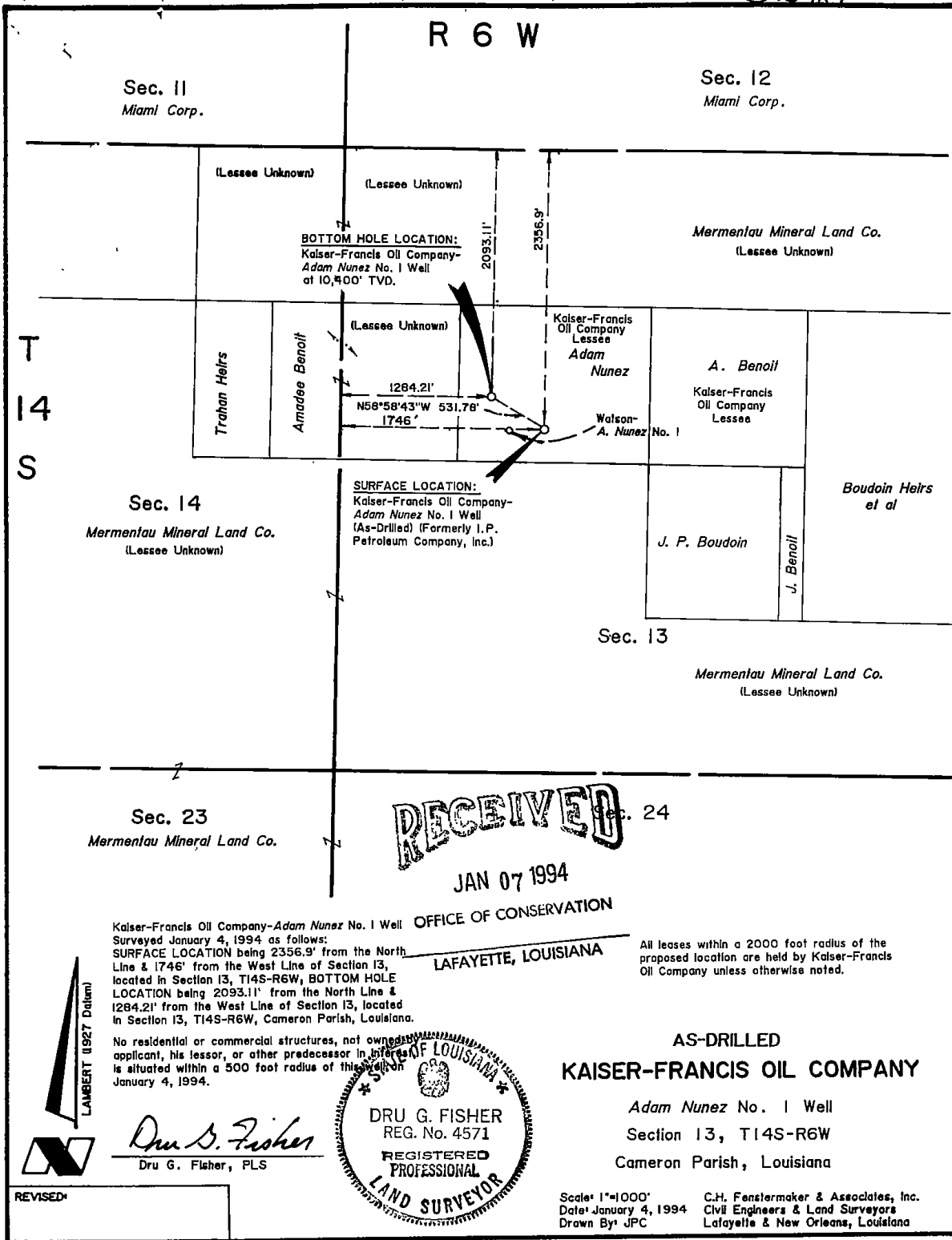
1-Filing: R 3-type of operation: P 9-EFF DATE 01/01/93
-Mailing Address: KAISER-FRANCIS OIL COMPANY
P. O. BOX 21468
TULSA, OK

Zip: 74121 - 1468

-Production Audit: KAISER-FRANCIS OIL COMPANY
Address P. O. BOX 21468

CITY/ST TULSA, OK Zip: 74121 - 0000
Contact: BOB MAJUR
Telephone: 918-494-0000
-Org plan: C State: DE Prev Org Name: - 0000
Printed name: RUBEN MAJUR Date signed: 01/19/93
PLANT S/I/R (000/000/000) Date Appr: 02/05/93 Check no. 069045 Paid: P

216489



Kaiser-Francis Oil Company-Adam Nunez No. 1 Well Surveyed January 4, 1994 as follows:
 SURFACE LOCATION being 2356.9' from the North Line & 1746' from the West Line of Section 13, located in Section 13, T14S-R6W, BOTTOM HOLE LOCATION being 2093.11' from the North Line & 1284.21' from the West Line of Section 13, located in Section 13, T14S-R6W, Cameron Parish, Louisiana.

OFFICE OF CONSERVATION
 LAFAYETTE, LOUISIANA

All leases within a 2000 foot radius of the proposed location are held by Kaiser-Francis Oil Company unless otherwise noted.

No residential or commercial structures, not owned by applicant, his lessor, or other predecessor in interest, is situated within a 500 foot radius of this well on January 4, 1994.

AS-DRILLED
 KAISER-FRANCIS OIL COMPANY

Adam Nunez No. 1 Well
 Section 13, T14S-R6W
 Cameron Parish, Louisiana



Dru G. Fisher
 Dru G. Fisher, PLS



Scale: 1"=1000'
 Date: January 4, 1994
 Drawn By: JPC

C.H. Fenstermaker & Associates, Inc.
 Civil Engineers & Land Surveyors
 Lafayette & New Orleans, Louisiana

REVISED:

STATE OF LOUISIANA
OFFICE OF CONSERVATION

Inter Office

Date: January 7, 1994

To: Permit Section
From: John E Caldwell, Jr., Manager (Acting), Lafayette District Office
Attn: Linda Betz

Enclosed herewith please find application from Kaiser-Francis Oil Company for permit to Drill their Adam Nunez #001, Little Cheniere Field, Cameron Parish, Louisiana.

Also enclosed please find:

Copy of Check No. 0040434 in the amount of \$1,000.00.
PERMITTED TO A TOTAL DEPTH OF 10,400'.

- Well Location Plat
- Well Location Certification

- _____ Form A.D.C.
- _____ Electric Log
- _____ Schematic Diagram
- _____ (Dual) structure map if well does not comply with existing Orders
- _____ (Selective-Onshore) structure map showing reservoir limits
- _____ (Selective-Offshore) letter(s) of no objection from offset operators

Applicable Department of Conservation Order No. 29-B, 29-E, 645 Series.

Pending Hearing, Docket No.

Remarks & Recommendation: Routine. Re-entry of SN 213712. Suitable unit shall be formed. Proposed location is in the CZM Area. CZM Permit No. P930799 noted in cover letter. NOTE: Slight difference in surface location.

per Dan Fisher
X = 1,489,584.10
Y = 426,566.51

Encls.

JEC:mjn
cc: Geological Oil & Gas Division
Prod Audit (For Amended Permits Only)

BY: *[Signature]*
for John E Caldwell, Jr., District Manager, (Acting)

1-10-94
Per Bill Robbins, the pre-app. notice dated 12-22-93 will be suspended pending the drilling/testing of this well. FJB

OK w/ CZM #P930799
29-B-1 letter
29-E letter
29-E Unit letter
Copy of 645 Series
OFFICE OF CONSERVATION
PERMIT SECTION
91 JAN 10 AIO: 46
RECEIVED

State of Louisiana



EDWIN W. EDWARDS
GOVERNOR

JOHN F. ALES
SECRETARY

DEPARTMENT OF NATURAL RESOURCES

H. W. THOMPSON
COMMISSIONER AND
ASSISTANT SECRETARY

January 7, 1994

Kaiser-Francis Oil Company
Attn: Jerry Britsch
P O Box 21468
Tulsa, OK 74121-1468

Dear Mr. Britsch:

We have processed and forwarded to Baton Rouge for final approval your application to drill Adam Nunez #001, Little Cheniere Field, Cameron Parish.

Statewide Order No. 29-B issued by the Commissioner of Conservation on July 19, 1943 required:

1. No well shall be drilled, nor shall the drilling of a well be commenced, BEFORE a permit for such well has been issued by the Office of Conservation.

2. A Progress Report is required to be filed, either written, by telephone, OR BY FAX (318) 262-5486 with the District Office by Monday of each week. INCLUDE RIG NAME AND NUMBER AND RIG TELEPHONE NUMBER ON INITIAL REPORT.

3. No well shall commence drilling below surface casing until a sign has been posted on the derrick and subsequently on the well.

4. The completion report must be filed within three (3) days after the date of completion. The electric logs (Composite 1"=100') must be filed in DUPLICATE ten (10) days after the completion of the well. The Well History (WH-1) MUST be filed in TRIPPLICATE TWENTY (20) DAYS after the completion of the well on forms provided by this department.

5. IN THE EVENT YOU USE A CONSULTANT OR A DRILLING CONTRACTOR ON A TURNKEY BASIS, PLEASE SEE THAT HE IS FURNISHED A COPY OF THESE INSTRUCTIONS.

6. Contact Dallas King, Conservation Enforcement Agent for the Office of Conservation at telephone (318) 478-0380 or at 4316 Sarver St, Lake Charles, LA 70605 or at BEEPER # (318) 494-9122 for further information.

Very truly yours,


John E. Caldwell, Jr., Manager (Acting)

JFC:mjn
Encs.

P. O. Box 51285, Lafayette, LA 70505 - 825 Kaliste Saloom Rd., Brandywine 3, Ste. 220

AN EQUAL OPPORTUNITY EMPLOYER

WELL FILE COPY

FORM MD 13-R

STATE OF LOUISIANA
OFFICE OF CONSERVATION

PERMIT TO DRILL FOR MINERALS

\$1000
PERMIT.....~~XXXXXX~~
Multiple Zone Processing

ATT

REDRILL

Send To Lafayette/11 Date January 10, 1994
Serial No. 216489 API 1702322542
Parish Cameron 012 Field Little Cheniere 6060

Operator Kaiser-Francis Oil Company 3179

Address PO Box 21468

City & State Tulsa, OK 74121

Well Name Adam Nunez No. 1

Location Sec 13, T14S, R6W

2356.9' FNL & 1746' FWL of Sec 13. BHL: @ 10,400' TVD,

being 2093.11' FNL & 1284.21' FWL of Sec 13.

(Redrill -Ser#213712-P&A 4-9-92)

PTD 10,400' TVD

Zone or Reservoir of Proposed Completion Planulina H

Applicable Office of Conservation Order 29B, 29E, 29E-U, 645 Series

H.W. Thompson
COMMISSIONER

Felix J. Boudreaux
ISSUING AUTHORITY

204862



RECEIVED

APR 18 1994

Office of Conservation
OFFICE OF CONSERVATION
Baton Rouge, LA
WELL HISTORY AND WORK RESUME REPORT

FIELD	Little Cheniere	
SERIAL NO.	216489	RFC
PRODUCING INTERVAL	10357' - 10363' APR 15 1994	
RESERVOIR (COMPANY SAND IDENTIFICATION)	Planulina H	LAFAYETTE OFFICE OF CONSERVATION

Three typewritten copies of this report must be filed with the District Office of the Office of Conservation in which the well is located within twenty (20) days of the date of completion. NOTE: If not properly completed and signed this report will be returned.

LEASE AND WELL DATA

CHECK APPROPRIATE BOXES	<input checked="" type="checkbox"/> 31 INACTIVE DRY HOLE FUT UTIL	PRODUCT	IF RECOMPLETION	DATE COMP. RECOM. OR P & A
<input checked="" type="checkbox"/> NEW WELL	<input checked="" type="checkbox"/> 32 INACTIVE DRY HOLE NO FUT. UTIL.	<input type="checkbox"/> OIL	<input type="checkbox"/> SAME RESERVOIR	● M D Y 3/1/94
<input type="checkbox"/> RECOMPLETION	<input checked="" type="checkbox"/> 36 INACTIVE WAITING ON PIPELINE	<input checked="" type="checkbox"/> GAS	<input type="checkbox"/> DIFFERENT RESERVOIR	
<input type="checkbox"/> P & A	<input type="checkbox"/> 37 INACTIVE WAITING ON MARKET	<input type="checkbox"/> OTHER		

OPERATOR	CODE ●	ADDRESS
Kaiser-Francis Oil Company	3179	P. O. Box 21468, Tulsa, OK 74121-1468

WELL NAME	WELL NO
Adam Nunez	1

PARISH	SEC.	TWP	RGE.	DATE PERMIT ISSUED
Cameron	13	14S	6W	1/10/94

DATE SPUNDED	DATE READY TO PRODUCE*	TOTAL DEPTH	PSTD
● M D Y 2/16/94	3/1/94	11495	10617

GROUND ELEVATION	CASING HEAD FLANGE ELEVATION	DISTANCE FROM RKB TO CNF
n/a	n/a	23.04'

DATE WELL TURNED INTO TANKS	SINGLE, DUAL OR TRIPLE COMPLETION?	NOTE: IF THIS IS A MULTIPLE COMPLETION, FURNISH A SEPARATE REPORT FOR EACH COMPLETION
WOPL	Single	

WAS WELL DIRECTIONALLY DRILLED?	WAS DIRECTIONAL SURVEY MADE?	WERE 3 COPIES FILED WITH THE OFFICE OF CONSERVATION?	DATE FILED
Yes	Yes	Yes	3/4/92

TYPE OF ELECTRICAL OR OTHER LOGS RUN (CIRCLE LOGS FILED WITH OFFICE OF CONSERVATION)	DATE FILED
None this completion	n/a

CASING, LINER AND TUBING RECORD

●	CASING SIZE	HOLE SIZE	CASING WEIGHT	DEPTH SET		SACKS CEMENT	TEST PRESSURE	HOURS UNOFF PRESSURE	DATE TESTED (MM DD YY)	NAME OF TEST WITNESS - STATE IF CONSERVATION AGENT OR OFFSET OPERATOR
				FROM	TO					
101	13 3/8	17 1/2	54.5	0	3650	2695	n/a	n/a	n/a	n/a
102	9 5/8	12 1/4	53.5	0	9975	1011	n/a	n/a	n/a	n/a
103	7 5/8	8 1/2	39.0	9665	11495	187	n/a	n/a	n/a	n/a
104										
105										

TUBING SIZE	2 7/8"	DEPTH OF TUBING	10300	DEPTH OF PACKER(S)	10300
-------------	--------	-----------------	-------	--------------------	-------

INITIAL COMPLETION OR RE-COMPLETION DATA

INITIAL PRODUCTION	GAS VOLUME	GOR	CHOKE SIZE	PRODUCING METHOD
13.5 BOPD	1050 MCF/DAY	77,777 CF/BBL	7 /64"	Flowing

FLOWING TUBING PRESSURE	SHUT-IN TUBING PRESSURE	CASING PRESSURE	WATER PRODUCTION	RS&W
5710 PSI	5950 PSI	200	0 BPD	- %

GRAVITY	BHP (SHUT-IN)	COMPANY REPRESENTATIVE	DATE GAUGED
42 °API @ 60° F	n/a PSI	Rod Shaffer	3/4/94

PLUG AND ABANDON (P & A) DATA

CASING SIZE	AMOUNT PULLED	CEMENT PLUGS				DATE WORK PERFORMED	NAME OF TEST WITNESS - STATE IF CONSERVATION AGENT OR OFFSET OPERATOR
		FROM	TO	SACKS	HOW PLACED		

CERTIFICATE: I, the undersigned, state: That I am employed by Kaiser-Francis Oil Co. and that I am authorized to make this report, and that this report was prepared under my supervision and direction and that all facts stated herein are true, correct and complete to the best of my knowledge.

Signature: Charles Van Valkenburg Title: Technical Coordinator

* Date well is equipped to produce, but due to no available market, no pipe line connection, etc., the well has been shut-in.

WORK RESUME

List below all work performed under Office of Conservation Work Permits while drilling and completing well

WORK PERMIT NO	DATE WORK PERFORMED	SERVICE COMPANY	DESCRIPTION OF WORK
	3/1/94	Halliburton	Perf'd 10357'-10363'

List below all important Paleofaunal or Geological Formation tops, Cap Rock and Salt Overhang bottoms.

FORMATION	DEPTH	FORMATION	DEPTH
"10350'" Sand	10355		

STATE OF LOUISIANA
OFFICE OF CONSERVATION
AMENDED PERMIT TO DRILL FOR MINERALS

(CORRECTED)

216489 SERIAL NO DATE 07/05/94 EFFECTIVE 03/29/94

CURRENT CODES

012 PARISH	CAMERON	DISTRICT LAFAYETTE
6060 FIELD	LITTLE CHENIERE	
3179 OPERATOR	KAISER-FRANCIS OIL COMPANY	
2 PRODUCT	P. O. BOX 21468	
MA	TULSA, OK	74121

2-611739 WELL NAME 10350 RA SUA;ADAM NUNEZ NO. 001
LOCATION OF WELL SEC 013 T 14S R 06W
FORMER WELL NAME: ADAM NUNEZ 3-216489

APPLICABLE OFFICE OF CONSERVATION ORDER 645- CC

H. W. THOMPSON

FELIX J. BOUDREAU

COMMISSIONER

ISSUING AUTHORITY

WELL FILE

State of Louisiana



EDWIN W. EDWARDS
GOVERNOR

JOHN F. ALES
SECRETARY

DEPARTMENT OF NATURAL RESOURCES
May 16, 1994

H. W. THOMPSON
COMMISSIONER AND
ASSISTANT SECRETARY

OFFICE OF CONSERVATION
ATTN: PERMIT SECTION
P. O Box 94275
BATON ROUGE, LA 70804-9275

Order	645-CC
Eff	3/29/94
Acrg	± 345
Prod	945
Cpt	rlp
Comp	3-1-94

Dear Mr Boudreaux:

Enclosed herewith please find application from ~~Kaiser-Francis Oil Company~~ for permit to amend their well name from Adam Nunez to 10350 RA SUA; Adam Nunez #001, Serial # 216489, Little Cheniere Field, Cameron Parish.

Check No. forwarded under separate cover to the Accounting Section in Baton Rouge.

03-29-94 The effective date of this change.

gas The product of this well.

Voluntary Unit Affidavit and Plat attached.

A copy of location plat is attached.

Attachment for Mr. Boudreaux.

X No fee required for this change. Change being made per Office of Conservation Order No. 29-B .

Yours very truly,

John E. Caldwell, Jr.

John E Caldwell, Jr., Manager (Acting)
Lafayette District

JEC:mbv
Encls.
cc: Prod Audit/Anita Hebert
Baton Rouge, LA

RECEIVED
94 MAY 18 AID : 344
OFFICE OF CONSERVATION
PERMIT SECTION

Work Permit

STATE OF LOUISIANA DEPARTMENT OF CONSERVATION

Well Name & No 10350 RA SUA; Adam Nunez #1 Sec. 13 T. 14S R. 6W

Field Little Cheniere Parish Cameron

Permit Serial No 216489 Work Permit No. LP# 283-95

Description of Work To P&A: Est. inj rate & sqz perfs @ 10357'-10363'. If (1) unable to inj, spot 200' cmt plug (100'in & out) of liner top @ 9665'. POOH w/tbg. (2) Cut 9 5/8" csg @ 3600' & spot 200' cmt plug (100'in & out). (3) Spot 100 sx cmt plug @ surf. (4) Other plugs as req by DOC. (5) Minimum 9.0# mud in well. (6) Cut surf csg 3' below GL & weld on Sand & Reservoir To Be Tested Planulina H ID 11495 Plate.

Operator Kaiser-Francis Oil Company

Address P. O. Box 21468

City, State & Zip Tulsa, OK 74121-1468

Permit Requested By C. Jan Valkenburg Date 5/12/95

Charlotte Van Valkenburg Original Signed By: **LAFAYETTE** **MAY 16 1995**

Permit Authorized By J. E. CALDWELL, JR. District _____ Date _____

RECEIVED

RECEIVED

AUG 16 1995

STATE OF LOUISIANA

JUL 03 1995

Office of Conservation
Well Files

OFFICE OF CONSERVATION

PLUG AND ABANDON REPORT

Lafayette District Office

Baton Rouge, LA

WORK PERMIT NO. LP # 283-95

WELL SERIAL NO. 2216489

TOTAL DEPTH 13,051' PBDT 10,617'

DATE WORK FINISHED (MM-DD-YY) 6/26/95

LAFAYETTE DISTRICT
(Three Copies to be Filed with the District Office)

NOTE: This Report Will Be Returned If Not Properly Completed And Signed

Field Little Chenier Parish CAMERON Sec. 13 Twp. 14-S Rge. 6-W

Operator KAISER-FRANCIS OIL CO. Well Name 10,350 RA SULA; ADAM NUNEZ Well No. 1

Check Appropriate Box: 29 DRY HOLE 30 FORMERLY ACTIVE 18 TEMPORARILY ABANDONED (All But Top Plug Set)

Depth Casing Cut Below Plow Depth Or Mud Line 5' Weight of Mud Left In Well After Abandonment 9.2

Setting Depths Of Bridge Plugs And/Or Cement Retainers _____

Is This Well A Multiple Completion? Yes ___ No ___ - If Yes, Submit Additional Report For Other Well(s) And Indicate Other Serial No(s). In Space Provided. _____

	CASING* SIZE	CASING PULLED
301	7 3/8"	_____
302	9 5/8"	_____
303	9 5/8"	_____
304		
305		
306		
307		

CEMENT PLUGS*				
FROM	TO	NO. SACKS	SLURRY WT	PLACEMENT METHOD
9760'	9560'	60	15.5 #	Displaced 56-21-95
3750'	3550'	76	15.5 #	Displaced 56-23-95
105'	05'	38	15.5 #	Displaced 56-26-95

*List Casing Sizes And Plug Depths In Descending Order

Remarks: NOTE 13 3/8" x 9 5/8" CASINGS CEMENTED TO SURFACE - CUT & RECOVER ALL CASINGS 5' BELOW GROUND LEVEL & WELD 1/2" STEEL PLATE

This work was done according to the Rules and Regulations of the Office of Conservation.

Mike Gandy
WITNESS

KAISER-FRANCIS OIL COMPANY
OPERATOR (Company Name)

Murphy LeBlanc
REPRESENTATIVE (SIGNED)

RECEIVED

RECEIVED

AUG 16 1995

STATE OF LOUISIANA

JUL 03 1995

Office of Conservation
Well Files
Baton Rouge, LA

OFFICE OF CONSERVATION

PLUG AND ABANDON REPORT

Lafayette District Office

WORK PERMIT NO. LP # 283-95

WELL SERIAL NO. 216489

TOTAL DEPTH 13,051' PBDT 10,617'

DATE WORK FINISHED (MM-DD-YY) 6/26/95

LAFAYETTE DISTRICT
(Three Copies to be Filed with the District Office)

NOTE: This Report Will Be Returned If Not Properly Completed And Signed

Field LITTLE CHENIER Parish CAMERON Sec. 13 Twp. 14-S Rge. 6-U

Operator KAISER-FRANCIS OIL CO. Well Name 10350 RA SUE; AM NUNEZ Well No. 1

Check Appropriate Box: 29 DRY HOLE 30 FORMERLY ACTIVE 18 TEMPORARILY ABANDONED
(All But Top Plug Set)

Depth Casing Cut Below (Plow Depth) Or Mud Line 5' Weight of Mud Left In Well After Abandonment 9.2

Setting Depths Of Bridge Plugs And/Or Cement Retainers _____

Is This Well A Multiple Completion? Yes ___ No ___ - If Yes, Submit Additional Report For Other Well(s) And Indicate Other Serial No(s). In Space Provided. _____

	CASING* SIZE	CASING PULLED
301	7 5/8"	_____
302	9 5/8"	_____
303	9 5/8"	_____
304		
305		
306		
307		

CEMENT PLUGS*					
FROM	TO	NO. SACKS	SLURRY WT	PLACEMENT METHOD	
9760'	9560'	60	15.5 #	Displaced 6-21-95	
3750'	3550'	76	15.5 #	Displaced 6-23-95	
105'	05'	38	15.5 #	Displaced 6-26-95	

*List Casing Sizes And Plug Depths In Descending Order

Remarks: NOTE 13 3/8" x 9 5/8" CASINGS CEMENTED TO SURFACE - CUT & RECOVER ALL CASINGS 5' BELOW GROUND LEVEL & WELD 1/2" STEEL PLATE

This work was done according to the Rules and Regulations of the Office of Conservation.

Mike Gundy
WITNESS


KAISER-FRANCIS OIL COMPANY
OPERATOR (Company Name)

Murphy LeBlanc
REPRESENTATIVE (SIGNED)

RECEIVED

Amended - add'l work permit on back

Aug 16 1995
 Office of Conservation
 Well Files
 Baton Rouge, LA



OFFICE OF CONSERVATION
 WELL HISTORY AND WORK RESUME REPORT

FIELD: Little Cheniere
 SERIAL NO.: 216489
 PRODUCING INTERVAL: 10357' - 10363'
 RESERVOIR (COMPANY SAND IDENTIFICATION): Planulina H

Three typewritten copies of this report must be filed with the District Office of the Office of Conservation in which the well is located within twenty (20) days of the date of completion. NOTE: If not properly completed and signed this report will be returned.

LEASE AND WELL DATA

CHECK APPROPRIATE BOXES
 NEW WELL
 RECOMPLETION
 P & A

31 INACTIVE DRY HOLE FUT. UTIL.
 32 INACTIVE DRY HOLE NO FUT. UTIL.
 36 INACTIVE WAITING ON PIPELINE
 37 INACTIVE WAITING ON MARKET

PRODUCT
 OIL
 GAS
 OTHER

IF RECOMPLETION
 SAME RESERVOIR
 DIFFERENT RESERVOIR

DATE COMPLETION OR P & A M D Y
 6/26/95

OPERATOR: Kaiser-Francis Oil Company
 CODE: 3179
 ADDRESS: P. O. Box 21468, Tulsa, OK 74121-1468

WELL NAME: Adam Nunez
 WELL NO: 1

PARISH: Cameron
 SEC: 13 TWP: 14S RGE: 6W
 DATE PERMIT ISSUED: 1/10/94

DATE SPUNDED M D Y: 2/16/94
 DATE READY TO PRODUCE*: 3/1/94
 TOTAL DEPTH: 11495
 PBTD: 10617

GROUND ELEVATION: n/a
 CASING HEAD FLANGE ELEVATION: n/a
 DISTANCE FROM RKB TO CHF: 23.04'

DATE WELL TURNED INTO TANKS: 5/20/94
 SINGLE, DUAL OR TRIPLE COMPLETION: Single
 NOTE: IF THIS IS A MULTIPLE COMPLETION, FURNISH A SEPARATE REPORT FOR EACH COMPLETION

WAS WELL DIRECTIONALLY DRILLED? Yes
 WAS DIRECTIONAL SURVEY MADE? Yes
 WERE 3 COPIES FILED WITH THE OFFICE OF CONSERVATION? Yes
 DATE FILED: 3/4/92

TYPE OF ELECTRICAL OR OTHER LOGS RUN (CIRCLE LOGS FILED WITH OFFICE OF CONSERVATION): None this completion
 DATE FILED: n/a

CASING, LINER AND TUBING RECORD

C	CASING SIZE	HOLE SIZE	CASING WEIGHT	DEPTH SET		SACKS CEMENT	TEST PRESSURE	HOURS UNDER PRESSURE	DATE TESTED (MM/DD/YY)	NAME OF TEST WITNESS - STATE IF CONSERVATION AGENT OR OFFSET OPERATOR
				FROM	TO					
101	13 3/8	17 1/2	54.5	0	3650	2695	n/a	n/a	n/a	n/a
102	9 5/8	12 1/4	53.5	0	9975	1011	n/a	n/a	n/a	n/a
103	7 5/8	8 1/2	39.0	9665	11495	187	n/a	n/a	n/a	n/a
104										
105										

TUBING SIZE: 2 7/8" DEPTH OF TUBING: 10300 DEPTH OF PACKER(S): 10300

INITIAL COMPLETION OR RE-COMPLETION DATA

INITIAL PRODUCTION: 13.5 BOPD GAS VOLUME: 1050 MCF/DAY GOR: 77,777 CF/BBL CHOKE SIZE: 7 /64" PRODUCING METHOD: Flowing

FLOWING TUBING PRESSURE: 5710 psig SHUT-IN TUBING PRESSURE: 5950 psig CASING PRESSURE: 200 WATER PRODUCTION: 0 BPD BS&W: - %

GRAVITY: 42 *API60* F BHP (SHUT-IN): n/a psig COMPANY REPRESENTATIVE: Rod Shaffer DATE GAUGED: 3/4/94

PLUG AND ABANDON (P & A) DATA

CASING SIZE	AMOUNT PULLED	CEMENT PLUGS				DATE WORK PERFORMED	NAME OF TEST WITNESS - STATE IF CONSERVATION AGENT OR OFFSET OPERATOR
		FROM	TO	SACKS	HOW PLACED		
7 5/8	-0-	9760	9560	60	Displaced	6/21/95	Mike Gundy
9 5/8	-0-	3750	3550	76	"	6/23/95	"
13 3/8	-0-	105	5	38	"	6/26/95	"

CERTIFICATE: I, the undersigned, state that I am employed by Kaiser-Francis Oil Co. and that I am authorized to make this report, and that this report was prepared under my supervision and direction and that all facts stated herein are true, correct and complete to the best of my knowledge.

Signature: *Charlotte Van Vaikenburg* Title: Technical Coordinator

*Date well is equipped to produce, but due to no available market, no pipe line connection, etc., the well has been shut-in.

RECEIVED
 AUG 15 1995
 Lafayette District Office

WORK RESUME

List below all work performed under Office of Conservation Work Permits while drilling and completing well.

WORK PERMIT NO	DATE WORK PERFORMED	SERVICE COMPANY	DESCRIPTION OF WORK
LP283-95	3/1/94 6/19/95 - 6/26/95	Halliburton Estes Well Service	Perf'd 10357'-10363' Attempted to establish injection rate for squeeze. Unable. Cut off 2 7/8" tbg @ 10,000'. PUH to 9760'. Set 60 sx cmt plug from 9760'-9560'. Loaded well w/9# mud. PUH to 3600'. Unable to cut off 9 5/8" casing. Appeared to be cemented. Call Richard Hudson for approval to proceed. Set 76 sx cmt plug from 3750' - 3550'. FOOH w/tbg. Set surf plug w/38 sxs cmt from 105'-5'. Cut off surf casing & welded on cap.

List below all important Paleofaunal or Geological Formation tops, Cap Rock and Salt Overhang bottoms.

FORMATION	DEPTH	FORMATION	DEPTH
"10350" Sand	10355		