

# WORK ORDER PERFORATING GUNS ATLAS CORPORATION

No. 34670 A

BRANCH Lake Charles

DATE 12-23-57

THIS WORK performed in accordance with terms and conditions specified on reverse side hereof, which we hereby approve and accept. Pricing, indicated hereon, subject to correction by our Invoicing Department, in accordance with latest price schedules.

CUSTOMER Forest Oil Corp

By Lewis Hammett

ADDRESS Box 1125; Lafayette, LA.

WELL NAME & NO. Dr. M.O. Miller # 12

FIELD Crab Lake

COUNTY & STATE CAMERON, LA.

SERVICE CHARGE: (For a series of operations performed on the same set-up, only one service charge will be made)..... \$150.00

### PERFORATE

From Depth	To Depth	Shots Per Foot	No. Shots In Area	Casing Size	Type of Perforating	Net Price
11766	11784	4	72	7	Jet	

### WIRE LINE BRIDGE PLUG

Size & Type	Depth	Serial Number	Brand Name	Casing Size	Casing Weight	Net Price

### WIRE LINE OR OTHER SERVICE CHARGES

Setting Service with junk catcher run included

Operating time after first 3 hours (In connection with Wire Line Services) .....Hrs. @ \$15.00/hr.

Stand-by time charged @ \$10.00/hr.

Time Arrived on Job 7:10<sup>A.M.</sup> 12-23 1957 Time of Leaving Job 1:50<sup>A.M.</sup> 12-24 -1957

Mileage One Way 65 Truck No. PO-48 Operator M. C. Simmons

# GENERAL CONDITIONS ATTENDING ALL SERVICES PGAC

**TERMS OF PAYMENT:** All accounts for the use and service of men, material and equipment furnished by PGAC shall be due in accordance with the invoice rendered. All accounts remaining unpaid after the expiration of 30 days from the date said use and service was furnished shall bear interest at the rate of 6% per annum. In the event the enforcement of the claim for indebtedness arising hereunder is placed in the hands of a collecting agency and/or an attorney for collection, the customer agrees to pay an extra charge of 10% of the total amount for collection fees.

**DIRECTION AND SUPERVISION:** PGAC in rendering services requested by the customer, does so as an independent contractor, recognizing that at all times the customer has complete custody and control of the well, the conditions created in the well, the drilling equipment and the well premises. A responsible representative of the customer must be present during the performance of our services, for the protection of both the customer and PGAC.

**INFORMATION:** Information obtained as a result of our services is held in strict confidence and will be released to others only upon written approval of the customer.

**INSURANCE:** PGAC agrees to carry at its own cost compensation insurance on its employees and public liability insurance on its operations.

**CONDITION OF CUSTOMER'S PROPERTY:** Customer certifies that the well in which the work ordered to be done is in proper and suitable condition for the performance of said work.

**DAMAGES AND INJURIES:** Due to the uncertain and unknown conditions and the incidental hazards under which the use and service of the men, material and equipment of PGAC is furnished to the customer, PGAC cannot be liable for injuries to persons or damages to property. Customer agrees that it will not hold PGAC or any of its agents liable for any damages of any kind to customer's well, be the same above or below the surface arising from any cause whatsoever. All the preceding terms and conditions shall also apply in favor of any manufacturer or supplier of any equipment that PGAC may use in the well.

**LOSS OF EQUIPMENT:** In the event that tools or equipment of PGAC should be lost in the performance of the work ordered, customer agrees to either recover the property lost without cost to PGAC or to pay for same.

**TRANSPORTATION OF EQUIPMENT TO WELL:** If in order to gain access to or return from the well to be serviced, it is necessary to repair roadbeds, or to provide tractors, barges or other special means of transportation for PGAC trucks, equipment or personnel, such shall be arranged and paid for by the customer.

**BARGE JOBS:** An additional charge of \$100 per round trip will be made when work is performed by a unit operating from a barge.

**TOW SERVICE:** When provided by PGAC tow service is charged \$150.00 for the first twenty-four hours or fraction. Each additional hour in excess of twenty-four is charged at \$10.00 per hour.

**MILEAGE CHARGE:** There is a free mileage zone of 150 miles driving radius from any one of our stations. The round trip mileage charge for every mile driven outside the free mileage zone is 50¢ per mile.

**STAND-BY TIME:** Stand-by Time is all that time spent at customer's location other than actual operating time. It includes periods PGAC is required to wait because of well conditions, testing, reconditioning, or customer's request. Time required for extra set-up or tear-down of PGAC equipment is considered Stand-by Time.

Stand-by Time will be computed from the time PGAC equipment or crew arrives on location or the time scheduled by the customer, whichever is later.

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An allowance of 10 free hours will be made on Stand-by Time prior to commencement of first operation.

An allowance of 5 free hours of Stand-by Time is allowed for each different type of service performed on the same set-up.

Beyond these allowances, charge will be made at the rate of \$15.00 per hour.

**COMBINING OF JOBS:** Only those services performed on the same trip to the well will be combined under a single service charge. The release of PGAC crew and equipment will terminate the operation except when temporarily released at PGAC request to service another well.

**INCOMPLETED OPERATIONS:** No charge is applied if the operation is not completed due to failure of PGAC equipment. If an operation is attempted but cannot be completed due to well conditions, charges will be applied as follows:

- (1) Service Charge \$150.00.
- (2) Stand-by Charge if applicable.
- (3) Mileage Charge if applicable.

If an operation is cancelled by a customer on arrival at well, round trip mileage will be charged from the nearest location without the 300 mile mileage exemption. In case of a barge job, Stand-by Time is charged from the time the unit left the base until returned.

In both cases of an attempted job or of a cancelled job the towing charge is made, if applicable.

**TAXES:** Any tax based on the sale of tangible personal property and/or the rendering of services ordered shall be added to the stated price.

**PRICE CHANGES:** Prices are subject to change at any time.

No employee of PGAC is empowered to alter the published prices or the above terms and conditions.

# WORK ORDER PERFORATING GUNS ATLAS CORPORATION

No. 36823 A

BRANCH BEAUMONT

DATE 12-22-57

THIS WORK performed in accordance with terms and conditions specified on reverse side hereof, which we hereby approve and accept. Pricing, indicated hereon, subject to correction by our Invoicing Department, in accordance with latest price schedules.

CUSTOMER Forest Oil Corp. By Lewis Hammett

ADDRESS Box 1125; Lafayette, LA.

WELL NAME & NO. DR. M.O. MILLER #12 FIELD CRAB LAKE

COUNTY & STATE CAMERON, LA.

SERVICE CHARGE: (For a series of operations performed on the same set-up, only one service charge will be made) \$150.00

### PERFORATE

From Depth	To Depth	Shots Per Foot	No. Shots in Area	Casing Size	Type of Perforating	Net Price
11848	11860	4	48	7	Jet	

### WIRE LINE BRIDGE PLUG

Size & Type	Depth	Serial Number	Brand Name	Casing Size	Casing Weight	Net Price

### WIRE LINE OR OTHER SERVICE CHARGES

Setting Service with junk catcher run included

Operating time after first 3 hours (In connection with Wire Line Services) \_\_\_\_\_ Hrs. @ \$15.00/hr.

Stand-by time charged @ \$10.00/hr.

Time Arrived on Job 7:00 <sup>A.M.</sup> P.M. 12-21-1957 Time of Leaving Job 4:30 <sup>A.M.</sup> P.M. 12-22-1957

Mileage One Way 55 Truck No. PU-16 Operator William Sekaly

# GENERAL CONDITIONS ATTENDING ALL SERVICES PGAC

**TERMS OF PAYMENT:** All accounts for the use and service of men, material and equipment furnished by PGAC shall be due in accordance with the invoice rendered. All accounts remaining unpaid after the expiration of 30 days from the date said use and service was furnished shall bear interest at the rate of 6% per annum. In the event the enforcement of the claim for indebtedness arising hereunder is placed in the hands of a collecting agency and/or an attorney for collection, the customer agrees to pay an extra charge of 10% of the total amount for collection fees.

**DIRECTION AND SUPERVISION:** PGAC in rendering services requested by the customer, does so as an independent contractor, recognizing that at all times the customer has complete custody and control of the well, the conditions created in the well, the drilling equipment and the well premises. A responsible representative of the customer must be present during the performance of our services, for the protection of both the customer and PGAC.

**INFORMATION:** Information obtained as a result of our services is held in strict confidence and will be released to others only upon written approval of the customer.

**INSURANCE:** PGAC agrees to carry at its own cost compensation insurance on its employees and public liability insurance on its operations.

**CONDITION OF CUSTOMER'S PROPERTY:** Customer certifies that the well in which the work ordered to be done is in proper and suitable condition for the performance of said work.

**DAMAGES AND INJURIES:** Due to the uncertain and unknown conditions and the incidental hazards under which the use and service of the men, material and equipment of PGAC is furnished to the customer, PGAC cannot be liable for injuries to persons or damages to property. Customer agrees that it will not hold PGAC or any of its agents liable for any damages of any kind to customer's well, be the same above or below the surface arising from any cause whatsoever. All the preceding terms and conditions shall also apply in favor of any manufacturer or supplier of any equipment that PGAC may use in the well.

**LOSS OF EQUIPMENT:** In the event that tools or equipment of PGAC should be lost in the performance of the work ordered, customer agrees to either recover the property lost without cost to PGAC or to pay for same.

**TRANSPORTATION OF EQUIPMENT TO WELL:** If in order to gain access to or return from the well to be serviced, it is necessary to repair roadbeds, or to provide tractors, barges or other special means of transportation for PGAC trucks, equipment or personnel, such shall be arranged and paid for by the customer.

**BARGE JOBS:** An additional charge of \$100 per round trip will be made when work is performed by a unit operating from a barge.

**TOW SERVICE:** When provided by PGAC tow service is charged \$150.00 for the first twenty-four hours or fraction. Each additional hour in excess of twenty-four is charged at \$10.00 per hour.

**MILEAGE CHARGE:** There is a free mileage zone of 150 miles driving radius from any one of our stations. The round trip mileage charge for every mile driven outside the free mileage zone is 50¢ per mile.

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# WORK ORDER PERFORATING GUNS ATLAS CORPORATION

No. 38525 A

BRANCH Lafayette, La DATE 12-27-57

THIS WORK performed in accordance with terms and conditions specified on reverse side hereof, which we hereby approve and accept.  
Pricing, indicated hereon, subject to correction by our Invoicing Department, in accordance with latest price schedules.

CUSTOMER Forest Oil Corp. By K.H. Ault

ADDRESS Box 1125 Lafayette, La.

WELL NAME & NO. Dr. M. O. Miller #12 FIELD Crab Lake

COUNTY & STATE Cameron, La.

SERVICE CHARGE: (For a series of operations performed on the same set-up, only one service charge will be made) ..... \$150.00

### PERFORATE

From Depth	To Depth	Shots Per Foot	No. Shots in Area	Casing Size	Type of Perforating	Net Price
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### WIRE LINE BRIDGE PLUG

Size & Type	Depth	Serial Number	Brand Name	Casing Size	Casing Weight	Net Price

### WIRE LINE OR OTHER SERVICE CHARGES

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Operating time after first 3 hours (In connection with Wire Line Services) ..... Hrs. @ \$15.00/hr.

Stand-by time charged @ \$10.00/hr.

Time Arrived on Job 2:30 <sup>A.M.</sup> ~~P.M.~~ 12-27 1957 Time of Leaving Job 7 <sup>A.M.</sup> ~~P.M.~~ 12-27 1957

Mileage One Way 55 Truck No. P-38 Operator W.E. Beasley

# GENERAL CONDITIONS ATTENDING ALL SERVICES OF PGAC

**TERMS OF PAYMENT:** All accounts for the use and service of men, material and equipment furnished by PGAC shall be due in accordance with the invoice rendered. All accounts remaining unpaid after the expiration of 30 days from the date said use and service was furnished shall bear interest at the rate of 6% per annum. In the event the enforcement of the claim for indebtedness arising hereunder is placed in the hands of a collecting agency and/or an attorney for collection, the customer agrees to pay an extra charge of 10% of the total amount for collection fees.

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October 8, 1957

Forest Oil Corporation  
Box 1125 Oil Center Station  
Lafayette, Louisiana

Attention: Mr. John C. Willis

Gentlemen:

You are herewith being returned your application for permit to drill your Dr. M. O. Miller No. 12, Crab Lake Field, Cameron Parish, Louisiana, for the reason that offset wells are not shown on plats

Yours very truly,

ARSENE P. EDWARDS  
District Manager  
Lake Charles, La.

APE:dmb

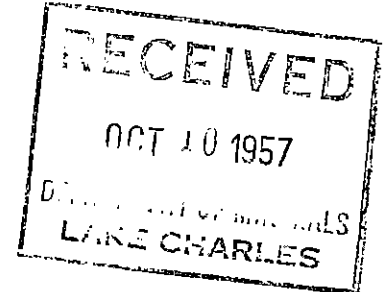
Encl.

F O R E S T O I L C O R P O R A T I O N



*Station 2, Box 1401, Lafayette, Louisiana*

Box 1125-Oil Center Station  
October 9, 1957



Mr. Arsene P. Edwards  
State of Louisiana  
Department of Conservation  
Lake Charles, Louisiana

Dear Sir:

Enclosed are corrected plats of one Dr. M. O. Miller # 12. Location, Crab Lake Field, Cameron Parish, Louisiana. The offset wells have been added to the plats.

Also enclosed is the corrected completion report of State Lease 1377, Well # A-1-D, in Block 4, East Cameron Area. A completion report on the A-1 well was filed in your office when completed in September, 1955.

Sincerely,

*John C. Hillis*

:csc

October 10, 1957

Mr. Thos. M. Winfield, Chief Engr.  
Department of Conservation  
State Capitol Building  
Baton Rouge, Louisiana

Dear Sir:

Find enclosed check for \$50 covering permit fee,  
application of Forest Oil Corporation for permit to  
drill their Dr. M. O. Miller, No. 12, Crab Lake Field,  
Cameron Parish, Louisiana.

Yours very truly,

ARSENE P. EDWARDS  
District Manager  
Lake Charles, La.

APE:faj

Encl.

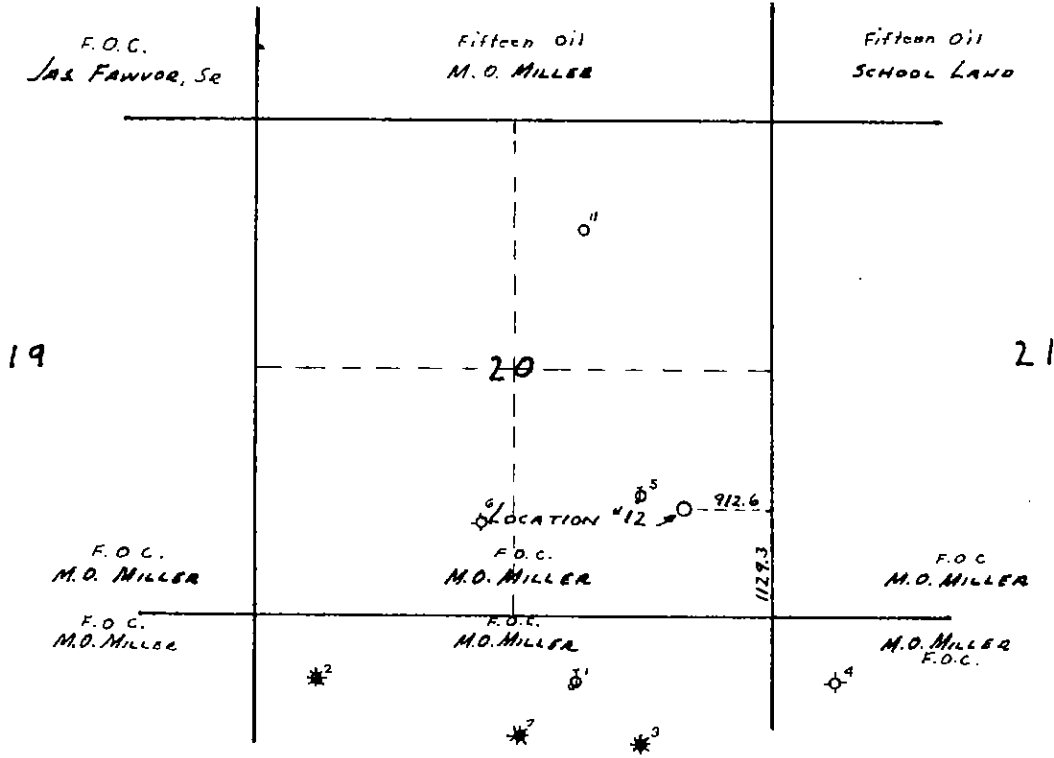
T15S, R5W CAMERON PSH., LA.



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16



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*Mo. May 1957*

**RECEIVED**  
 OCT 8 1957  
 DEPARTMENT OF MINERALS  
 LAKE CHARLES

PLAT OF LOCATION OF  
 FOREST OIL CORP. #12 M.O. MILLER  
 WELL LOCATION  
 BEING 1129.3' NORTH AND 912.6'  
 WEST OF SE CORNER OF SEC.  
 20, T15S, R5W; CAMERON PSH., LA.

**RECEIVED**  
 OCT 10 1957  
 DEPARTMENT OF MINERALS  
 LAKE CHARLES

SEPT. 26, 1957 1"=2000'  
 H.K. Pratt Johnson, C.E. # 799

DEPARTMENT OF CONSERVATION  
STATE OF LOUISIANA

AFFIDAVIT OF TEST OF CASING IN WELL

DATE WORK DONE 11-18-57

WELL SERIAL NO. 68164  
WORK PERMIT NO. 52735

Lake Charles DISTRICT  
(One copy to be filed with the District Office)

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

Field Crab Lake Parish Cameron Sec. 20 Twp. 15-S Rge. 5-W

Company Forest Oil Corp. Lease Dr. M. O. Miller Well No. 12

Size of casing 10 3/4" Weight 40.5# Make Jones & Laughlin

No. of threads per in. 8 Grade J-55 H-40 Seamless  New  2nd

If second hand, was pipe tested \_\_\_\_\_ Describe \_\_\_\_\_

Depth casing shoe landed below derrick floor 3094 Ft. Sacks of cement 1500

Size of hole 15 Ins. Amount of cement left in pipe 47'

Method of cementing HOWCO Cement set in 24 hrs., under 500 psig.

Total depth 3094 Total time set 48 hrs.

DETAIL OF PRESSURE TEST BEFORE DRILLING PLUG

Date of test 11-18-57 Gauge pressure of casing 1500 psig.

Pressure at end of 30 minutes 1500 Pressure drop 0 psig.

Test fluid: Water  Mud  Weight 9.5# Viscosity 50

Remarks: 11-7-60 A 100 sx. plug was set from 2963'-3213' and tested with 1500# to complete as salt water disposal well #1

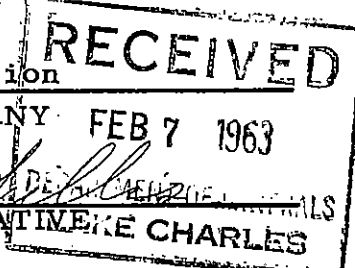
This work was done according to the Rules and Regulations of the Department of Conservation.

Forest Oil Corporation

WITNESS

(Signed)

John C. Miller  
REPRESENTATIVE  
LAKE CHARLES



DEPARTMENT OF CONSERVATION  
STATE OF LOUISIANA

MINERALS DIVISION  
LOUISIANA  
WORK PERMIT NO. 52735  
WORK SERIAL NO. 68164

AFFIDAVIT OF TEST OF CASING IN WELL

DATE WORK DONE 11-18-57

WORK PERMIT NO. 52735  
WORK SERIAL NO. 68164

(One copy to filed with the District Office.)

NOTE:

THIS REPORT WILL BE RETURNED IF NOT PROPERLY FILLED IN AND SIGNED

PARISH Cameron FIELD Crab Lake SEC 20 TWP 15 SRGE 5W  
COMPANY Forest Oil Corp LEASE M.O. Miller WELL NO. 12  
TOTAL DEPTH 3110  
SIZE OF CASING 10 3/4 IN.WT. PER FT. 40.50 # MAKE J&L  
NO. OF THREADS PER IN. 8 Rd GRADE J-55 # H-40 SEAMLESS  NEW  2ND  
IF SECOND HAND, WAS PIPE TESTED \_\_\_\_\_ DESCRIBE \_\_\_\_\_

DEPTH LANDED BELOW DERRICK FLOOR 3094 FT. SACKS OF CEMENT See memo.  
SIZE OF HOLE 15 IN.: AMOUNT OF CEMENT LEFT IN PIPE 47'  
METHOD OF CEMENTING Howco CEMENT SET 24 HOURS UNDER 500 LBS.  
PRESSURE \_\_\_\_\_ TOTAL TIME SET 48 HOURS.

DETAIL OF PRESSURE TEST BEFORE DRILLING PLUG

DATE OF TEST 11-18- 1957. GUAGE PRESSURE OF CASING 1500 LBS.  
PRESSURE AT END OF 30 MINUTES 1500 DROP 0 LBS.  
TEST FLUID: WATER  MUD \_\_\_\_\_ LBS. PER GAS: VISCOSITY \_\_\_\_\_ SEC.

REMARKS: 250 Lc + 4% Del + 125 w/H Stalocrete, 1000 Lc common  
+ 4% Del and 250 Lc common neat cement

THIS WORK WAS DONE ACCORDING TO THE RULES AND REGULATIONS OF THE DEPARTMENT OF CONSERVATION, MINERALS DIVISION.

SIGNED Forest Oil Corp  
COMPANY

WITNESS: Sam J. Jones Jr  
FORM, Gsg (T) MD-16

Lewis Dammert  
REPRESENTATIVE

WORK PERMIT

PERMIT TO Perforate DATE 12-12-57  
PARISH Cameron FIELD Crab Lake  
COMPANY Forest Oil Corporation  
ADDRESS Box #1125 OCS Lafayette, Louisiana  
WELL NAME M. C. Miller No. 12 SEC 20 T. 15S R. 5W  
WELL PERMIT SERIAL No. 67838 WORK PERMIT No.  
LOCATION 1200' S and 1980' W of the NE/c of Section 20  
Cameron Parish, Louisiana

YOU ARE HEREBY AUTHORIZED TO Perforate 11858' - 11874' and  
drill stem test

PERMIT REQUESTED BY John Willis TD 12007'  
Company Representative

AUTHORIZED BY AISENE P. EDWARDS  
District Office  
Lake Charles, La.

WORK PERMIT

PERMIT TO Perforate DATE December 18, 1957  
PARISH Cameron FIELD Crab Lake  
COMPANY Forest Oil Corporation  
ADDRESS Box #1125 OCS, Lafayette, Louisiana  
WELL NAME M. O. Miller No. 12 SEC. 20 T. 15S R. 5W  
WELL PERMIT SERIAL No. 67838 WORK PERMIT No. \_\_\_\_\_  
LOCATION 1200' S and 1980' W of the NE Corner of Section  
20, Cameron Parish, Louisiana  
YOU ARE HEREBY AUTHORIZED TO Perforate 11778' - 11796' and  
drill stem test

PERMIT REQUESTED BY John C. Willis TD 12007'  
Company Representative

AUTHORIZED BY ARSENE P. EDWARDS  
District Office  
Lake Charles, La.

DEPARTMENT OF CONSERVATION  
STATE OF LOUISIANA

AFFIDAVIT OF TEST OF CASING IN WELL

DATE WORK DONE 12-20-57

WORK PERMIT NO. 52935  
WORK SERIAL NO. 68164

(One copy to filed with the District Office.)

NOTE:

THIS REPORT WILL BE RETURNED IF NOT PROPERLY FILLED IN AND SIGNED

PARISH Cameron FIELD Crest Lake SEC 20 TWP 15 RGE 5

COMPANY Forest Oil Co LEASE M O Miller WELL NO. 12

TOTAL DEPTH 12007

SIZE OF CASING 7 IN. WT. PER FT. 32-29 MAKE Jenbacher

NO. OF THREADS PER IN. 8 GRADE N 80 SEAMLESS ✓ NEW 2ND

IF SECOND HAND, WAS PIPE TESTED \_\_\_\_\_ DESCRIBE \_\_\_\_\_

DEPTH LANDED BELOW DERRICK FLOOR 1202 FT. SACKS OF CEMENT 1050

SIZE OF HOLE 9 7/8 IN.: AMOUNT OF CEMENT LEFT IN PIPE 40

METHOD OF CEMENTING AB CEMENT SET 8 HOURS UNDER 1500 LBS.

PRESSURE \_\_\_\_\_ TOTAL TIME SET \_\_\_\_\_ HOURS.

DETAIL OF PRESSURE TEST BEFORE DRILLING PLUG

DATE OF TEST 12-20 1957. GUAGE PRESSURE OF CASING 1650 LBS.

PRESSURE AT END OF 30 MINUTES 1650 DROP none LBS.

TEST FLUID: WATER ✓ MUD \_\_\_\_\_ LBS. PER GAS: VISCOSITY \_\_\_\_\_ SEC.

REMARKS: Blowout Preventer Master Valve Checked

THIS WORK WAS DONE ACCORDING TO THE RULES AND REGULATIONS OF THE DEPARTMENT OF CONSERVATION, MINERALS DIVISION.

SIGNED Forest Oil Corp  
COMPANY

WITNESS: Sam J. Dley

L Hammett  
REPRESENTATIVE

RECEIVED  
DEC 2 1957

DEPARTMENT OF CONSERVATION  
STATE OF LOUISIANA

- PERFORATING RECORD -

WORK PERMIT NO. 52735

WORK SERIAL NO. 68164

DATE WORK DONE 12-22nd, 1957

(One copy to be filed with the District Office)

NOTE:

THIS REPORT WILL BE RETURNED IF NOT PROPERLY FILLED IN AND SIGNED

PARISH Cameron FIELD Crab-Lake SEC. 20 TWP. 15 RGE. 5

COMPANY Forest Oil Co. LEASE Dr. M. O. Miller WELL NO. 12

TOTAL DEPTH 12007 NEW OR OLD WELL new

SIZE CASING 7" DEPTH OF CASING 12002

DEPTH OF PLUG BELOW PERFORATIONS 11946-86

PERFORATED FROM 11848 TO 11860

NUMBER OF HOLES 48 SIZE OF HOLES jet

PERFORATING COMPANY F.P.A.C. TRUCK NUMBER \_\_\_\_\_

PURPOSE OF PERFORATIONS For Production

REMARKS: Blow out Preventer  
Master Valve, Spooling Nipple

THIS WORK WAS DONE ACCORDING TO THE RULES AND REGULATIONS OF THE DEPARTMENT OF CONSERVATION.

*Sam J. Jones*

SIGNED: Forest Oil Corp  
COMPANY  
L. Hammett  
REPRESENTATIVE

RECEIVED  
DEC 27  
DEPARTMENT OF CONSERVATION  
LAKE CHARLES

DEPARTMENT OF CONSERVATION  
STATE OF LOUISIANA

- PERFORATING RECORD -

WORK PERMIT NO. 52735

WORK SERIAL NO. 68164

DATE WORK DONE Dec. 24-1957

(One copy to be filed with the District Office)

NOTE:

THIS REPORT WILL BE RETURNED IF NOT PROPERLY FILLED IN AND SIGNED

PARISH Cameron FIELD Crest Lake SEC. 20 TWP 15 RGE 5

COMPANY Farrar Oil Co LEASE Mc Miller WELL NO. 17

TOTAL DEPTH 12007 NEW OR OLD WELL NEW

SIZE CASING 7" DEPTH OF CASING 12002

DEPTH OF PLUG BELOW PERFORATIONS 11946 - 167

PERFORATED FROM 11766 TO 11784

NUMBER OF HOLES 62 SIZE OF HOLES 2 1/8"

PERFORATING COMPANY D.G.A.C. TRUCK NUMBER PH 48

PURPOSE OF PERFORATIONS For Production

REMARKS: Blow out prevention, Master  
Value Shooting Up

THIS WORK WAS DONE ACCORDING TO THE RULES AND REGULATIONS OF THE DEPARTMENT OF CONSERVATION.

Sam J. Jiles Jr.

SIGNED: Farrar Oil Co  
COMPANY

L. Hammer  
REPRESENTATIVE

WORK PERMIT

PERMIT TO Acidize DATE December 27, 1957  
PARISH Cameron FIELD Crab Lake  
COMPANY Forest Oil Corporation  
ADDRESS Box 1125 OCS, Lafayette, La.  
WELL NAME M. O. Miller No. 12 SEC. 20 T. 15S R. 5W  
WELL PERMIT SERIAL No. 68164 WORK PERMIT No. \_\_\_\_\_  
LOCATION 1100' North & 875' West of the SE corner  
of Section 20, T15S, R5W.

YOU ARE HEREBY AUTHORIZED TO Acidize perforations 11778'-  
11796' with 2000 gallons mud acid to increase  
permeability.

PERMIT REQUESTED BY JOHN C. WILLIS TD 12007'  
Company Representative

AUTHORIZED BY ARSENE P. EDWARDS  
District Office  
Lake Charles, La.

DEPARTMENT OF CONSERVATION  
STATE OF LOUISIANA

Perforate  
L.C. #51

WORK PERMIT

PERMIT TO Perforate DATE February 7, 1958  
PARISH Cameron FIELD Grab Lake  
COMPANY Forest Oil Corporation  
ADDRESS Box 1125 OCS, Lafayette, Louisiana  
WELL NAME M. O. Miller No. 12 SEC 20 T 15S R 5W  
WELL PERMIT SERIAL No. 68164 WORK PERMIT No. \_\_\_\_\_  
LOCATION 1100' North & 875' West of the SE corner of  
Section 20, T 15S, R 5-W.  
YOU ARE HEREBY AUTHORIZED TO Perforate 9652' - 9660' with  
4 bullets per foot for production.

PERMIT REQUESTED BY L. HAMMETT TD 120071  
Company Representative

AUTHORIZED BY ARSENE P. EDWARDS  
District Office  
Lake Charles, La.

**WORK PERMIT**

PERMIT TO Perforate & Squeeze DATE February 7, 1958  
PARISH Cameron FIELD Crab Lake  
COMPANY Forest Oil Corporation  
ADDRESS Box 1125 OCS, Lafayette, Louisiana  
WELL NAME M. O. Miller No. 12 SEC 20 T 15S R 5W  
WELL PERMIT SERIAL No. 68164 WORK PERMIT No. \_\_\_\_\_  
LOCATION 1100' North & 875' West of the SE corner of Section  
20, T 15-S, R 5-W.

YOU ARE HEREBY AUTHORIZED TO Perforate 9680' - 9681' with  
4 jets/ft. and squeeze.

PERMIT REQUESTED BY L. HAMMETT TD 12007'  
Company Representative

AUTHORIZED BY \_\_\_\_\_  
ARSENE P. EDWARDS  
District Office  
Lake Charles La.

**WORK PERMIT**

PERMIT TO Squeeze DATE February 7, 1958  
PARISH Cameron FIELD Crab Lake  
COMPANY Forest Oil Corporation  
ADDRESS Box 1125 OCS, Lafayette, Louisiana  
WELL NAME M. O. Miller No. 12 SEC 20 T 15S R 5W  
WELL PERMIT SERIAL No. 68164 WORK PERMIT No. \_\_\_\_\_  
LOCATION 1100' North & 875' West of the SE corner of  
Section 20, T 15-S, R 5-W.  
YOU ARE HEREBY AUTHORIZED TO Squeeze perforations 11778' -  
11796'.

PERMIT REQUESTED BY L. HAMMETT TD 12007'  
Company Representative

AUTHORIZED BY ARSENE P. EDWARDS  
District Office  
Lake Charles, La.

MINERALS DIVISION  
DEPARTMENT OF CONSERVATION  
STATE OF LOUISIANA

RECEIVED  
FEB 17 1958  
DEPARTMENT OF CONSERVATION  
MINERALS DIVISION  
WORK PERMIT NO. LAKE CHARLES  
WELL SERIAL NO. 681164

-SQUEEZE JOB RECORD-

DATE WORK DONE 2-9-58  
LAKE CHARLES  
(One copy to be filed with the District Office)

NOTE:

THIS REPORT WILL BE RETURNED IF NOT PROPERLY FILLED IN AND SIGNED

PARISH Cameron FIELD CRAB LAKE SEC. 20 TWP 15 SRGE SW  
COMPANY Forest Oil Corp PLEASE M. O. Miller WELL NO. 12  
TOTAL DEPTH 12006 NEW OR OLD WELL New  
SIZE OF CASING 7" DEPTH OF CASING 12005  
METHOD OF PLACING CEMENT HOWCO Displacement  
WHERE CEMENT RETAINER WAS SET: DEPTH 11745 FT.  
ZONE OF SQUEEZE FROM 11766 TO 11784 BR  
NUMBER OF SACKS USED 50 HOURS SET 8  
BARRELS OF WATER PUMPED BEFORE CEMENT 10 AFTER 5  
BREAKDOWN PRESSURE 5700 FINAL PRESSURE 6000  
SQUEEZE JOB DONE BY Baku Retrievable Sq. Tool  
REMARKS Squeeze Job successful

THIS WORK WAS DONE ACCORDING TO THE RULES AND REGULATIONS OF THE DEPARTMENT OF CONSERVATION, MINERALS DIVISION

Sam J. Dew

SIGNED: Forest Oil Corp.  
COMPANY

B. H. Cull  
REPRESENTATIVE

DEPARTMENT OF CONSERVATION  
STATE OF LOUISIANA

- PERFORATE AND SQUEEZE RECORD 1958

DATE WORK DONE 2-14-58

WORK PERMIT NO. CHARLES

WORK SERIAL NO. 68164

Lake Charles

(One copy to be filed with the District Office)

NOTE:

THIS REPORT WILL BE RETURNED IF NOT PROPERLY FILLED IN AND SIGNED

PARISH Cameron FIELD Crab Lake SEC. 20 TWP. 15 SRGE. 5W

COMPANY Forest Oil Corp LEASE M. D. Miller WELL NO. 12

TOTAL DEPTH 12006 NEW OR OLD WELL New

SIZE CASING 7" DEPTH OF CASING 12005

DEPTH OF PLUG BELOW PERFORATION 2067' @ 11732

PERFORATED FROM 9664 TO 9665 G.R. Measurement.

NUMBER OF HOLES 4 SIZE OF HOLES Jets

PERFORATION COMPANY PGAC TRUCK NUMBER \_\_\_\_\_

METHOD OF PLACING CEMENT HOWCO Displacement

WHERE CEMENT RETAINER SET: DEPTH 9649 FT.

BARRELS OF WATER PUMPED BEFORE CEMENT 15 AFTER 5

BREAKDOWN PRESSURE 4800 LBS. FINAL PRESSURE 5600 LBS.

PURPOSE OF SQUEEZE JOB To insure cement around 7" csg.

SQUEEZE JOB DONE BY HOWCO

REMARKS: Squeeze Job successful.

THIS WORK WAS DONE ACCORDING TO THE RULES AND REGULATIONS OF THE DEPARTMENT OF CONSERVATION, DIVISION OF MINERALS.

*Sam J. Hall*

SIGNED: Forest Oil Corp.  
C O M P A N Y

R. H. Becht  
Representative

# WORK ORDER PERFORATING GUNS ATLAS CORPORATION

No. 39815 A

BRANCH Beaumont

DATE 2-14-58

THIS WORK performed in accordance with terms and conditions specified on reverse side hereof, which we hereby approve and accept. Pricing, indicated hereon, subject to correction by our Invoicing Department, in accordance with latest price schedules.

CUSTOMER Forest Oil Co By Ault

ADDRESS Box 1125 O.S.S.; Lafayette, La.

WELL NAME & NO. M.O. Miller #12 FIELD GARB LAKE

COUNTY & STATE CAMERON, LA.

SERVICE CHARGE: (For a series of operations performed on the same set-up, only one service charge will be made)..... \$150.00

### PERFORATE

From Depth	To Depth	Shots Per Foot	No. Shots in Area	Casing Size	Type of Perforating	Net Price
9664	9665	4	4	7"-32	Jet	

### WIRE LINE BRIDGE PLUG

Size & Type	Depth	Serial Number	Brand Name	Casing Size	Casing Weight	Net Price

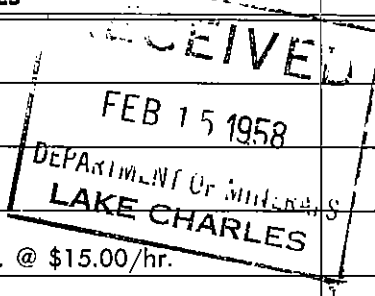
### WIRE LINE OR OTHER SERVICE CHARGES

Setting Service with junk catcher run included

Set Baker Packer @ 11732'

Operating time after first 3 hours (In connection with Wire Line Services) ..... Hrs. @ \$15.00/hr.

Stand-by time charged @ \$10.00/hr.



Time Arrived on Job..... A.M. P.M. .... 195..... Time of Leaving Job..... A.M. P.M. .... 195.....

Truck No. PU-26 Operator William Sekaly

# GENERAL CONDITIONS ATTENDING ALL SERVICES OF PGAC

**TERMS OF PAYMENT:** All accounts for the use and service of men, material and equipment furnished by PGAC shall be due in accordance with the invoice rendered. All accounts remaining unpaid after the expiration of 30 days from the date said use and service was furnished shall bear interest at the rate of 6% per annum. In the event the enforcement of the claim for indebtedness arising hereunder is placed in the hands of a collecting agency and/or an attorney for collection, the customer agrees to pay an extra charge of 10% of the total amount for collection fees.

**DIRECTION AND SUPERVISION:** PGAC in rendering services requested by the customer, does so as an independent contractor, recognizing that at all times the customer has complete custody and control of the well, the conditions created in the well, the drilling equipment and the well premises. A responsible representative of the customer must be present during the performance of our services, for the protection of both the customer and PGAC.

**INFORMATION:** Information obtained as a result of our services is held in strict confidence and will be released to others only upon written approval of the customer.

**INSURANCE:** PGAC agrees to carry at its own cost compensation insurance on its employees and public liability insurance on its operations.

**CONDITION OF CUSTOMER'S PROPERTY:** Customer certifies that the well in which the work ordered to be done is in proper and suitable condition for the performance of said work.

**DAMAGES AND INJURIES:** Due to the uncertain and unknown conditions and the incidental hazards under which the use and service of the men, material and equipment of PGAC is furnished to the customer, PGAC cannot be liable for injuries to persons or damages to property. Customer agrees that it will not hold PGAC or any of its agents liable for any damages of any kind to customer's well, be the same above or below the surface arising from any cause whatsoever. All the preceding terms and conditions shall also apply in favor of any manufacturer or supplier of any equipment that PGAC may use in the well.

**LOSS OF EQUIPMENT:** In the event that tools or equipment of PGAC should be lost in the performance of the work ordered, customer agrees to either recover the property lost without cost to PGAC or to pay for same.

**TRANSPORTATION OF EQUIPMENT TO WELL:** If in order to gain access to or return from the well to be serviced, it is necessary to repair roadbeds, or to provide tractors, barges or other special means of transportation for PGAC trucks, equipment or personnel, such shall be arranged and paid for by the customer.

**BARGE JOBS:** An additional charge of \$100 per round trip will be made when work is performed by a unit operating from a barge.

**TOW SERVICE:** When provided by PGAC tow service is charged \$150.00 for the first twenty-four hours or fraction. Each additional hour in excess of twenty-four is charged at \$10.00 per hour.

**MILEAGE CHARGE:** There is a free mileage zone of 150 miles driving radius from any one of our stations. The round trip mileage charge for every mile driven outside the free mileage zone is 50¢ per mile.

**STAND-BY TIME:** Stand-by Time is all that time spent at customer's location other than actual operating time. It includes periods PGAC is required to wait because of well conditions, testing, reconditioning, or customer's request. Time required for extra set-up or tear-down of PGAC equipment is considered Stand-by Time.

Stand-by Time will be computed from the time PGAC equipment or crew arrives on location or the time scheduled by the customer, whichever is later.

When PGAC equipment is waiting at one well and is released to service another well, Stand-by Time will not apply against the first well while the equipment is away, but will be resumed upon return.

An allowance of 10 free hours will be made on Stand-by Time prior to commencement of first operation.

An allowance of 5 free hours of Stand-by Time is allowed for each different type of service performed on the same set-up.

Beyond these allowances, charge will be made at the rate of \$15.00 per hour.

**COMBINING OF JOBS:** Only those services performed on the same trip to the well will be combined under a single service charge. The release of PGAC crew and equipment will terminate the operation except when temporarily released at PGAC request to service another well.

**INCOMPLETED OPERATIONS:** No charge is applied if the operation is not completed due to failure of PGAC equipment.

If an operation is attempted but cannot be completed due to well conditions, charges will be applied as follows:

- (1) Service Charge \$150.00.
- (2) Stand-by Charge if applicable.
- (3) Mileage Charge if applicable.

If an operation is cancelled by a customer on arrival at well, round trip mileage will be charged from the nearest location without the 300 mile mileage exemption. In case of a barge job, Stand-by Time is charged from the time the unit left the base until returned.

In both cases of an attempted job or of a cancelled job the towing charge is made, if applicable.

**TAXES:** Any tax based on the sale of tangible personal property and/or the rendering of services ordered shall be added to the stated price.

**PRICE CHANGES:** Prices are subject to change at any time.

No employee of PGAC is empowered to alter the published prices or the above terms and conditions.

682

DEPARTMENT OF CONSERVATION  
STATE OF LOUISIANA

- PERFORATING RECORD -

RECEIVED  
FEB 17 1958  
DEPARTMENT OF CONSERVATION  
LAKE CHARLES DISTRICT

WORK PERMIT NO. \_\_\_\_\_

WORK SERIAL NO. 68164

DATE WORK DONE 2-17-58

Lake Charles

(One copy to be filed with the District Office)

NOTE:

THIS REPORT WILL BE RETURNED IF NOT PROPERLY FILLED IN AND SIGNED

PARISH Cameron FIELD Crab Lake SEC. 20 TWP 15S RGE 5W

COMPANY Forest Oil Corp LEASE M. D. Miller WELL NO. 12

TOTAL DEPTH 12006 NEW OR OLD WELL New

SIZE CASING 7" DEPTH OF CASING 12005

DEPTH OF PLUG BELOW PERFORATIONS 2087 @ 11732

PERFORATED FROM 9636 TO 9644 G.R.

NUMBER OF HOLES 32 SIZE OF HOLES 1/2"

PERFORATING COMPANY PGAC TRUCK NUMBER \_\_\_\_\_

PURPOSE OF PERFORATIONS Perforate for production.

REMARKS: 2-6" Series 1500 QRC & shooting nipple.

THIS WORK WAS DONE ACCORDING TO THE RULES AND REGULATIONS OF THE DEPARTMENT OF CONSERVATION.

*Sam J. [Signature]*

SIGNED: Forest Oil Corp.  
COMPANY

K. H. [Signature]  
REPRESENTATIVE

# WORK ORDER PERFORATING GUNS ATLAS CORPORATION

No. 33861 A

BRANCH Lake Charles

DATE 2-17-58

**THIS WORK performed in accordance with terms and conditions specified on reverse side hereof, which we hereby approve and accept. Pricing, indicated hereon, subject to correction by our Invoicing Department, in accordance with latest price schedules.**

CUSTOMER Forest Oil Co. By N.H. Ault  
 ADDRESS Box 1125 O.C.S., Lafayette, La.  
 WELL NAME & NO. M.O. Miller # 12 FIELD CRAB LAKE  
 COUNTY & STATE CAMERON, LA.

**SERVICE CHARGE:** (For a series of operations performed on the same set-up, only one service charge will be made).....\$150.00

### PERFORATE

From Depth	To Depth	Shots Per Foot	No. Shots in Area	Casing Size	Type of Perforating	Net Price
9636	9644	4	32	7-32	Atlas Bullet	
(9652 9660 EL)						

### WIRE LINE BRIDGE PLUG

Size & Type	Depth	Serial Number	Brand Name	Casing Size	Casing Weight	Net Price

### WIRE LINE OR OTHER SERVICE CHARGES

Setting Service with junk catcher run included

FEB 19 1958

DEPARTMENT OF MINERALS  
LAKE CHARLES

Operating time after first 3 hours (In connection with Wire Line Services) .....Hrs. @ \$15.00/hr.

Stand-by time charged @ \$10.00/hr.

Time Arrived on Job 9 <sup>A.M.</sup>/<sub>P.M.</sub> 2-16 1958 Time of Leaving Job 12:30 <sup>A.M.</sup>/<sub>P.M.</sub> 2-17 1958

Mileage One Way 60 Truck No. PU-37 Operator M.L. Copit

# GENERAL CONDITIONS ATTENDING ALL SERVICES OF PGAC

**TERMS OF PAYMENT:** All accounts for the use and service of men, material and equipment furnished by PGAC shall be due in accordance with the invoice rendered. All accounts remaining unpaid after the expiration of 30 days from the date said use and service was furnished shall bear interest at the rate of 6% per annum. In the event the enforcement of the claim for indebtedness arising hereunder is placed in the hands of a collecting agency and/or an attorney for collection, the customer agrees to pay an extra charge of 10% of the total amount for collection fees.

**DIRECTION AND SUPERVISION:** PGAC in rendering services requested by the customer, does so as an independent contractor, recognizing that at all times the customer has complete custody and control of the well, the conditions created in the well, the drilling equipment and the well premises. A responsible representative of the customer must be present during the performance of our services, for the protection of both the customer and PGAC.

**INFORMATION:** Information obtained as a result of our services is held in strict confidence and will be released to others only upon written approval of the customer.

**INSURANCE:** PGAC agrees to carry at its own cost compensation insurance on its employees and public liability insurance on its operations.

**CONDITION OF CUSTOMER'S PROPERTY:** Customer certifies that the well in which the work ordered to be done is in proper and suitable condition for the performance of said work.

**DAMAGES AND INJURIES:** Due to the uncertain and unknown conditions and the incidental hazards under which the use and service of the men, material and equipment of PGAC is furnished to the customer, PGAC cannot be liable for injuries to persons or damages to property. Customer agrees that it will not hold PGAC or any of its agents liable for any damages of any kind to customer's well, be the same above or below the surface arising from any cause whatsoever. All the preceding terms and conditions shall also apply in favor of any manufacturer or supplier of any equipment that PGAC may use in the well.

**LOSS OF EQUIPMENT:** In the event that tools or equipment of PGAC should be lost in the performance of the work ordered, customer agrees to either recover the property lost without cost to PGAC or to pay for same.

**TRANSPORTATION OF EQUIPMENT TO WELL:** If in order to gain access to or return from the well to be serviced, it is necessary to repair roadbeds, or to provide tractors, barges or other special means of transportation for PGAC trucks, equipment or personnel, such shall be arranged and paid for by the customer.

**BARGE JOBS:** An additional charge of \$100 per round trip will be made when work is performed by a unit operating from a barge.

**TOW SERVICE:** When provided by PGAC tow service is charged \$150.00 for the first twenty-four hours or fraction. Each additional hour in excess of twenty-four is charged at \$10.00 per hour.

**MILEAGE CHARGE:** There is a free mileage zone of 150 miles driving radius from any one of our stations. The round trip mileage charge for every mile driven outside the free mileage zone is 50¢ per mile.

**STAND-BY TIME:** Stand-by Time is all that time spent at customer's location other than actual operating time. It includes periods PGAC is required to wait because of well conditions, testing, reconditioning, or customer's request. Time required for extra set-up or tear-down of PGAC equipment is considered Stand-by Time.

Stand-by Time will be computed from the time PGAC equipment or crew arrives on location or the time scheduled by the customer, whichever is later.

When PGAC equipment is waiting at one well and is released to service another well, Stand-by Time will not apply against the first well while the equipment is away, but will be resumed upon return.

An allowance of 10 free hours will be made on Stand-by Time prior to commencement of first operation.

An allowance of 5 free hours of Stand-by Time is allowed for each different type of service performed on the same set-up.

Beyond these allowances, charge will be made at the rate of \$15.00 per hour.

**COMBINING OF JOBS:** Only those services performed on the same trip to the well will be combined under a single service charge. The release of PGAC crew and equipment will terminate the operation except when temporarily released at PGAC request to service another well.

**INCOMPLETED OPERATIONS:** No charge is applied if the operation is not completed due to failure of PGAC equipment.

If an operation is attempted but cannot be completed due to well conditions, charges will be applied as follows:

- (1) Service Charge \$150.00.
- (2) Stand-by Charge if applicable.
- (3) Mileage Charge if applicable.

If an operation is cancelled by a customer on arrival at well, round trip mileage will be charged from the nearest location without the 300 mile mileage exemption. In case of a barge job, Stand-by Time is charged from the time the unit left the base until returned.

In both cases of an attempted job or of a cancelled job the towing charge is made, if applicable.

**TAXES:** Any tax based on the sale of tangible personal property and/or the rendering of services ordered shall be added to the stated price.

**PRICE CHANGES:** Prices are subject to change at any time.

No employee of PGAC is empowered to alter the published prices or the above terms and conditions.

DEPARTMENT OF CONSERVATION  
STATE OF LOUISIANA

Lake Charles, DISTRICT

WELL COMPLETION OR RECOMPLETION REPORT

OIL WELL(  ) Three Copies to be filed with district COMPLETION(  )  
RECOMPLETION(  )

DIS. WELL(  ) Office within three (3) days of date of completion or recompletion (as per Order No. 29-A, Section X, Paragraph A, Article 1). PERMIT SERIAL NO. (68164)

PARISH Cameron FIELD Crab Lake SEC 20 TWP 15S RG 5W

COMPANY Forest Oil Corporation LEASE M. O. Miller WELL NO. #12

DRILLING CONTRACTOR Grey Wolf Drilling DATE SPUNDED (OR W.O.) 11-11-57 (7:00 PM)

DATE COMPLETED OR RECOMPLETED 2-22 19 58, AT 8:00 (AM) (P.M)

COMPLETION DATA

INITIAL PRODUCTION No gauge BBLs./Net

TUBING PRESSURE 1950 #SQ. IN. GAS FLOWING (  ) SHUT-IN (  )

CASING PRESSURE Sealed #SQ. IN. GA.

CHOKE 12/64" SIZE POSITIVE (  ) ADJUSTABLE (  )

B. S. & W. 0 PERCENT SALT WATER ( 0 ) WASH WATER ( 0 )

GAS VOLUME No gauge MCF/DAY

GAS/OIL RATIO GF/BBLs.

GRAVITY (60 DEGREES A.P. I.)

PRODUCING DEPTH 11858 FT. TO 11870 FT.

PERFORATED YES (  ) NO (  ) BOTTOM TUBING 11817 FT. SIZE 2-3/8" IN.

CASING (OIL STRING) SIZE 7 IN. I. D. (  ) O. D. (  ) BOTTOM SEAT 12002 FT.

TOTAL DEPTH DRILLED 12007 FT. DERRICK FLOOR ELEVATION 16.70 FT.

(Additional clearance is requested for        barrels of oil produced on drillstem or other production tests. (See Section X, Paragraph B, of Order No. 29-A on reverse side.)

Forest Oil Corporation  
C O M P A N Y

FORM SIM 1-R

*(CM 4 Sand)*

RECORDED  
INDEXED  
MAR 4 1958

K. H. Ault  
COMPANY REPRESENTATIVE B

~~\_\_\_\_\_~~

DEPARTMENT OF CONSERVATION  
STATE OF LOUISIANA

This side to be used when requesting clearance for oil produced on Drill Stem Test or other Production tests, made previous to official completion or recompletion.

SECTION X, PARAGRAPH B OF ORDER NO. 29-A

Allowables given to wells for oil produced on drill stem tests, production test and miscellaneous production of oil shall be in accordance with the following rule:

All operators are required, within five days, to file three signed copies of the record of the daily production from the well, showing the number of hours the well produced and the interval of production as "from 8:00 A. M., August 5 to 3:00 P. M., August 8, 1942.

T E S T D A T A

Date of Test	TIME OF TEST	AMOUNT OF OIL PRODUCED
_____	_____ M. TO _____ M.	_____ BARRELS
_____	_____ M. TO _____ M.	_____ BARRELS
_____	_____ M. TO _____ M.	_____ BARRELS
_____	_____ M. TO _____ M.	_____ BARRELS
_____	_____ M. TO _____ M.	_____ BARRELS
_____	_____ M. TO _____ M.	_____ BARRELS
_____	_____ M. TO _____ M.	_____ BARRELS
_____	_____ M. TO _____ M.	_____ BARRELS
_____	_____ M. TO _____ M.	_____ BARRELS
_____	_____ M. TO _____ M.	_____ BARRELS
Total _____		_____ BARRELS

The above total barrels of oil were produced from \_\_\_\_\_ Ft. to \_\_\_\_\_ FT.

Remarks: \_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
COMPANY

\_\_\_\_\_  
COMPANY REPRESENTATIVE

P  
March 4, 1958

Mr. Thos. M. Winfield, Chief Engr.  
Department of Conservation  
State Capitol Building  
Baton Rouge, Louisiana

Dear Sir:

Find enclosed copy of Log of Well and Electrical Log  
on each of the following wells:

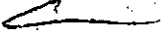
✓ Forest Oil Corporation  
M. O. Miller No. 12  
Cameron Parish, Louisiana

Serial No. 6816A  
Crab Lake Field

Forest Oil Corporation  
M. O. Miller No. 12-D  
Cameron Parish, Louisiana

Serial No. 6906A  
Crab Lake Field

Yours very truly,

  
ARSENE P. EDWARDS  
District Manager  
Lake Charles, La.

APE:faj

Enclosures

cc: State Geologist  
Baton Rouge, La.

POTENTIAL REPORT

115

Type Well: Oil \_\_\_\_\_ Gas \_\_\_\_\_ Distillate \_\_\_\_\_

Type Test: Comp. — Recom. \_\_\_\_\_ Retest \_\_\_\_\_ Regauge \_\_\_\_\_

Parish CAMERON Field GRAB LAKE

Company Forest Oil Corp. Serial No. 68164

Well Name & No. DR. M. O. MILLER # 12

Location: Sec. 20 Twp. 15S Rge. 5W Flowing — Pump \_\_\_\_\_

Prod. Horizon \_\_\_\_\_ Perf. Int. 11,858 to 11,870

Casing Setting: Size 7" @ 12,004

Tubing Setting: Size 2 1/4" @ 11,820 T.D. 12,007

Date Completed 3-28-58 Date Gauged 3-31-58

Acidize with \_\_\_\_\_ gals. Elev. of Derr. Floor \_\_\_\_\_

— TEST DATE —

T. P. 2200 C. P. 0 Choke Size 29 /64th

Closing TK Gge. 7 ft. 1 1/2 in. @ 10:00 AM Time

Opening TK Gge. 3 ft. 10 3/4 in. @ 6:00 AM Time

Diff. 3 ft. 2 3/4 in. 4 Hours (Time)

Tank No. 900 Tank Coef. 1.16

Bbls. per 4 Hrs. 44.95 Est. Bbls. per Day 269.20

Daily Gas Vol. 215.769 M.C.F. G/O Ratio 5.00/1

B.S.&W. — % Corrected Gravity 47 Deg. A.P.I.

Witnessed M. C. Vest Title Inspector

Gauged by Sam J. Lee Title \_\_\_\_\_  
Department of Conservation

District Office Lake Charles

Remarks: 3" Meter run 1/2" orifice  
20" Diff. static pres. 650  
50" X 1000 # = kart

COMMUNICATIONS SECTION

10:15 AM  
15  
- 10:20 AM

11:30 AM  
15  
11:45 AM  
3-21-58

10:00 AM  
10:15 AM  
10:30 AM

RECEIVED  
APR 17 1958  
DEPT. OF DEFENSE  
GENERALS  
LAKE CHARLES

11:15  
11:30  
11:45

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11:55 PM  
12:00 AM

**WORK PERMIT**

PERMIT TO Plug & Abandon DATE 9-20-60  
PARISH Cameron FIELD Grablake  
COMPANY Forest Oil Corp.  
ADDRESS Lafayette, La.  
WELL NAME Dr. M. O. Miller No. 12 SEC 20 T 15S R 5W  
WELL PERMIT SERIAL No. 68164 WORK PERMIT No. \_\_\_\_\_  
LOCATION 1100' N & 875' W of SE/c S c. 20-153-5W

YOU ARE HEREBY AUTHORIZED TO pull tbg. sq. perfs. 11778-96',  
11858-70' w/150 ax. cmt. Sq. perfs. 9652-60' w/150 ax. cmt.

PERMIT REQUESTED BY JOHN C. WILLIS TD. 1,2007'  
Company Representative

AUTHORIZED BY ARSENE P. EDWARDS  
District Office  
Lake Charles, La.

WORK PERMIT

PERMIT TO Pull Casing DATE 9-20-60  
PARISH Cameron FIELD Crab Lake  
COMPANY Forest Oil Corp.  
ADDRESS Lafayette, La.  
WELL NAME Dr. M. O. Miller A No. 12 SEC. 20 T. 15S R. 5W  
WELL PERMIT SERIAL No. 68164 WORK PERMIT No. \_\_\_\_\_  
LOCATION 3374' E & 660' S of NW/c Sec. 29-15S-5W

YOU ARE HEREBY AUTHORIZED TO cut 7" off @3050' & pull same.  
Spot cmt. plug @2950-3200'. Set Baker Model "K" cast iron plug  
@2900'

TD 12,007'

PERMIT REQUESTED BY JOHN C. WILLIS  
Company Representative

AUTHORIZED BY ARSENE P. EDWARDS  
District Office  
Lake Charles, La.

Permet Verbal  
**LANE-WELLS COMPANY**

**PERFORATING DATA SHEET**

Number Jobs This Trip 1 Land

District L.C. Operating Base L.C. Date 11-10-60 S. O. # 14088  
 Truck No. P436 Operator Chapman Helper to same  
 Customer Forest Oil Corp. Authorized Agent J.W. Brown  
 Name of Well Miller No. 12 Field Wood Grove & Crab Lake  
 State La County/Parish Caddo

Job Scheduled \_\_\_\_\_ A.M. Arrived At \_\_\_\_\_ Location \_\_\_\_\_ A.M.  
 P.M. P.M. Landing \_\_\_\_\_ P.M.  
 On Job \_\_\_\_\_ A.M. M. Res. Off Job \_\_\_\_\_ A.M. M. Res.  
 P.M. P.M.

Standby Time \_\_\_\_\_ Max. Temp \_\_\_\_\_ ° F.  
 New or Old Well Old Purpose of Perforating Gas/Water Kind of Fluid Oil Level full  
 Casing Record 15-10 Cemented In \_\_\_\_\_ Liner Record \_\_\_\_\_ Cemented In \_\_\_\_\_  
 Customer's Depth 2585 Measure Method Stations Zero Point 1/2 above B.H.F.  
 Lane-Wells Depth \_\_\_\_\_ Size Gun \_\_\_\_\_ No. \_\_\_\_\_ No. \_\_\_\_\_ Type \_\_\_\_\_ Controller No. \_\_\_\_\_ No. \_\_\_\_\_  
 Bullet Size 40 Holes from 1992 to 1982 Ft. Holes from \_\_\_\_\_ to \_\_\_\_\_ Ft.  
 Holes from \_\_\_\_\_ to \_\_\_\_\_ Ft. Shooting Zones Approved By: J.W. Brown Title \_\_\_\_\_

	Run No. <u>1</u>	Run No. <u>2</u>	Run No.	Run No.	Run No.	Run No.
1						
2						
3						
4						
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30						

RUNNING TIME	REMARKS
1) In From _____ to _____ A.M. P.M. Out From _____ to _____ A.M. P.M. Fluid _____ In _____ Out _____ Holes _____ Total _____ Misses _____ Total _____	
2) In From _____ to _____ A.M. P.M. Out From _____ to _____ A.M. P.M. Fluid _____ In _____ Out _____ Holes _____ Total _____ Misses _____ Total _____	
3) In From _____ to _____ A.M. P.M. Out From _____ to _____ A.M. P.M. Fluid _____ In _____ Out _____ Holes _____ Total _____ Misses _____ Total _____	
4) In From _____ to _____ A.M. P.M. Out From _____ to _____ A.M. P.M. Fluid _____ In _____ Out _____ Holes _____ Total _____ Misses _____ Total _____	
5) In From _____ to _____ A.M. P.M. Out From _____ to _____ A.M. P.M. Fluid _____ In _____ Out _____ Holes _____ Total _____ Misses _____ Total _____	
6) In From _____ to _____ A.M. P.M. Out From _____ to _____ A.M. P.M. Fluid _____ In _____ Out _____ Holes _____ Total _____ Misses _____ Total _____	

Mileage: From \_\_\_\_\_ to \_\_\_\_\_  
 Mileage: From \_\_\_\_\_ to \_\_\_\_\_

(11)

DEPARTMENT OF CONSERVATION  
STATE OF LOUISIANA

-PLUG AND ABANDON RECORD-

DATE WORK DONE 11-7-60

WORK PERMIT NO. L.C. #222  
WELL SERIAL NO. 68164

(Three copies to be filed with the District Office.)

NOTE: THIS REPORT WILL BE RETURNED IF NOT PROPERLY FILLED IN AND SIGNED.

PARISH Cameron FIELD Crab Lake SEC. 20 TWP 15 SRGE 5W

COMPANY Forest Oil Corp. LEASE Dr. M.O. Miller WELL NO. 12

TOTAL DEPTH 12,007 CONDITION OF WELL \_\_\_\_\_

- 1. SURFACE CASING (SIZE) 10 3/4 DEPTH 3094 AMOUNT PULLED 0
- 2. PROTECTION CASING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_ AMOUNT PULLED \_\_\_\_\_
- 3. PRODUCTION CASING (SIZE) 7" DEPTH 12,007 AMOUNT PULLED 3063

-CEMENT PLUGS-

- 1. DEPTH 11752 TO 11870 NO. OF SACKS 70 HOW PLACED Halliburton
- 2. DEPTH 9538 TO 9660 NO. OF SACKS 105 HOW PLACED Halliburton
- 3. DEPTH 2963 TO 3213 NO. OF SACKS 100 HOW PLACED Rig pump

MUD RECORD WEIGHT 12# VISCOSITY 60

REMARKS: \_\_\_\_\_

THIS WORK WAS DONE ACCORDING TO THE RULES AND REGULATIONS OF THE DEPARTMENT OF CONSERVATION.

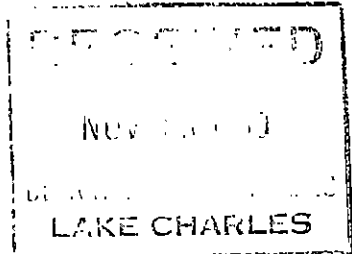
Witnessed by \_\_\_\_\_

Inspector \_\_\_\_\_ DISTRICT

SIGNED Forest Oil Corporation  
C O M P A N Y

*John C. Hillis*  
\_\_\_\_\_  
Representative

Form  
Abd---MD1



WORK PERMIT

PERMIT TO Perforate DATE 11-11-60  
PARISH Cameron FIELD Crab Lake  
COMPANY Forest Oil Corp.  
ADDRESS P.O. Box 1125, O.C.S., Lafayette, La.  
WELL NAME Dr. H.O. Miller No. 12 SEC. 20 T. 15S R. 5W  
WELL PERMIT SERIAL No. 68164 WORK PERMIT No. \_\_\_\_\_  
LOCATION 1100' N & 275' W of SE corner Sec. 20 T15S-R5W

YOU ARE HEREBY AUTHORIZED TO Perforate at 1982'-1992' 4 shots/  
ft. for Salt Water Disposal Well.

TD 2963' (PB)

PERMIT REQUESTED BY JOHN C. WILLIS  
Company Representative

AUTHORIZED BY Arsene P. Edwards

Form DM-4B

District Office  
Lake Charles, La.



FOREST OIL CORPORATION

*P.O. Box 1125, Oil Center Station, Lafayette, Louisiana*

Jan. 12, 1961

Mr. Arsene Edwards  
Department of Conservation  
107 Shindler Building  
1422 Ryan Street  
Lake Charles, La.

Dear Sir:

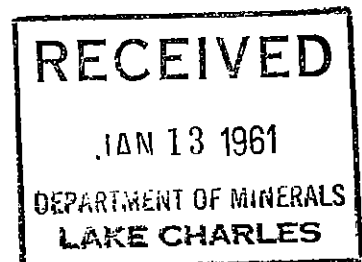
Enclosed is the original and two copies of the "Work-over" on converting the M. O. Miller #12 to a "Salt Water Disposal Well".

Yours truly,

*John C. Willis*

John C. Willis  
District Production Supt.

JCW: jr



*Workover Report*  
*Forest Hill*

WORKOVER REPORT M. O. MILLER #12

SERIAL NO.: 69064  
CONTRACTOR: Seaboard Well Service

---

- 11/4/60 Move Seaboard rig to location.
- 11/5/60 Rigging up.
- 11/6/60 Off - Sunday
- 11/7/60 Finished rigging up. Laid down 17 jts. 7" casing with jacks pulling 160,000#.
- 11/8/60 Laid down 46 jts. 7" casing.
- 11/9/60 Finished laying down 7" casing.

7" CASING REMOVED (Overall measurement)

1953.95' - 46 jts. 7", 32#, N-80, LT&C csg.  
20.83' - 1 pc. 7", 32#, N-80, LT&C csg.  
1974.78' - Total  
1036.01' - 25 jts. 7", 29#, N-80, LT&C csg.  
34.68' - 1 pc. 7", 29#, N-80, LT&C csg.  
7.58' - 1 pc. 7", 29#, N-80, LT&C csg.  
8.40' - 1 pc. 7", 29#, N-80, LT&C csg.  
1086.67' - Total

Went in hole with 2 7/8" tubing. Replaced mud with fresh water.

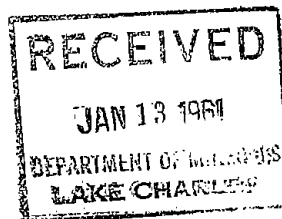
- 11/10/60 Set cement plug from 2963' to 3213' with 100 sx. common neat cement. Lane Wells ran Gamma Ray log from 1200' to 2600'. Set Baker cast iron bridge plug at 2585' on wire line. Perforated from 1982' - 1992' with four bullets per foot.
- 11/11/60 Ran 2 7/8" tubing completion string.

2 7/8" TUBING (Used tubing from Higginbotham)

30.03' - 1 jt. 2 7/8", 6.5#, P-110, TK used tbg.  
6.40' - Guiberson 10 3/4" type AF tension pkr. (1932')  
30.79' - 1 jt. 2 7/8", 6.5#, P-110, TK used tbg.  
3.10' - Guiberson type "A" flow valve mandrel TK with type "A" spring loaded check valve and type "A" flow valve set for 630#, (1898').  
630.36' - 21 jts. 2 7/8", 6.5#, P-110, TK used tbg.  
3.10' - Guiberson type "A" flow valve mandrel TK with type "A" spring loaded check valve and type "A" flow valve set for 650#, (1264')  
1248.77' - 42 jts. 2 7/8", 6.5#, P-110, TK used tbg.  
1952.55' - 65 jts.  
16.00' - elevation  
1968.55'

Weight of tubing in water 13,000#. Set packer with 30,000# or 17,000# strain. Broke formation with 200# pump pressure. Pumped in formation at rate 5 barrels per min. with 500# to 700#. Pumped in 3 barrels per min. with 300#.

- 11/12/60 Rigged down and loaded out.





DEPARTMENT OF CONSERVATION

WELL HISTORY AND WORK RESUME REPORT

FIELD

Crab Lake

SERIAL NO.

68164

PRODUCING INTERVAL

1982-1992

RESERVOIR (COMPANY SAND IDENTIFICATION)

Salt Water Disposal

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

LEASE AND WELL DATA

DESIGNATE TYPE OF COMPLETION: NEW WELL  RECOMPLETION  SAME RESERVOIR  DIFFERENT RESERVOIR  OIL  GAS  P&A

OPERATOR

Forest Oil Corporation

ADDRESS

P. O. Box 1125 OCS, Lafayette, La.

LEASE NAME

Dr. M. O. Miller

WELL NO.

S.W.D. #1

PARISH  
Cameron

SEC. 20

TWP. 15-S RGE. 5-W

DATE PERMIT ISSUED  
11-11-60

DATE SPUDDED  
11-11-67

TOTAL DEPTH  
12,007

PBTD  
2963'

GROUND ELEVATION  
2'

CASING HEAD FLANGE ELEVATION  
2'

DISTANCE FROM RKB TO CHF  
15.25'

DATE WELL TURNED INTO TANKS

SINGLE, DUAL OR TRIPLE COMPLETION?  
Salt Water Disposal

NOTE: IF THIS IS A MULTIPLE COMPLETION, FURNISH A SEPARATE REPORT FOR EACH COMPLETION

WAS WELL DIRECTIONALLY DRILLED?

No

WAS DIRECTIONAL SURVEY MADE?

No

WERE 3 COPIES FILED WITH THE DEPARTMENT OF CONSERVATION?

DATE FILED

TYPE OF ELECTRICAL OR OTHER LOGS RUN (CIRCLE LOGS FILED WITH DEPT. OF CONSERVATION)

Gamma Ray

DATE FILED

2-7-63

CASING, LINER AND TUBING RECORD

CASING SIZE	HOLE SIZE	CASING WEIGHT	DEPTH SET	SACKS CEMENT	TEST PRESSURE	HRS. UNDER PRESSURE	DATE TESTED	NAME OF TEST WITNESS - STATE IF DEPT. AGENT OR OFFSET OPR.
16"	22"	54#	120'	200		8		
10 3/4"	15"	40.5#	3094'	1500	1500	36		

TUBING SIZE: 2 7/8"

DEPTH OF TUBING: 1932'

DEPTH OF PACKER (S): 1932'

INITIAL COMPLETION OR RE-COMPLETION DATA

INITIAL PRODUCTION	GAS VOLUME		CHOKESIZE	WELL STATUS
BOPD	MCF/DAY			
TUBING PRESSURE	CASING PRESSURE	GOR	BS & W	BHP - (SHUT-IN)
psig	psig		%	psi
GRAVITY	CONSERVATION AGENT MAKING GAUGE		COMPANY REPRESENTATIVE	DATE GAUGED
<sup>o</sup> API/60°F				

PLUG AND ABANDON (P&A) DATA

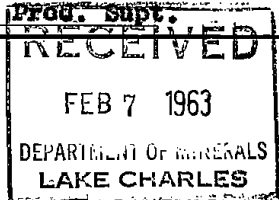
CASING SIZE	AMOUNT PULLED	CEMENT PLUGS				DATE WORK PERFORMED	NAME OF TEST WITNESS - STATE IF DEPT. AGENT OR OFFSET OPR.
		FROM	TO	SACKS	HOW PLACED		

CERTIFICATE: I, the undersigned, state: That I am employed by Forest Oil Corp. 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.

Form WH

Signature: John C. Miller

Title: Dist. Prod. Supt.



WORK RESUME

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

WORK PERMIT NO.	DATE WORK PERFORMED	SERVICE COMPANY	DESCRIPTION OF WORK
L.C.425	11-10-50	Lane Wells	Perforated 1982'-1992' for salt water disposal

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

FORMATION	DEPTH	FORMATION	DEPTH

MINERALS DIVISION  
DEPARTMENT OF CONSERVATION P & A  
STATE OF LOUISIANA L. C. #115

WORK PERMIT

PERMIT TO Abandon (Plug&abd) DATE 7/3/66  
PARISH Cameron FIELD Grab Lake  
COMPANY Forest Oil Corp.  
ADDRESS Box 51125, OCS, Lafayette, La.  
WELL NAME Dr. H. O. Miller SHD No. 1 SEC. 20 T. 15S R. SW  
WELL PERMIT SERIAL No. 68164 WORK PERMIT No. \_\_\_\_\_  
LOCATION \_\_\_\_\_

YOU ARE HEREBY AUTHORIZED TO Sq. parts. 1982-92' w/50 sxs. Set  
10 sxs. plug 10-30' to plug & abandon SHD #1

FB TD 2963

PERMIT REQUESTED BY JOHN C. WILLIS  
Company Representative

AUTHORIZED BY *William W. White*  
W. C. WHITE  
Lake Charles, La.  
District Office

DEPARTMENT OF CONSERVATION  
STATE OF LOUISIANA

PLUG AND ABANDON REPORT

DATE WORK DONE 7-10-66

WELL SERIAL NO. 68164

WORK PERMIT NO. LC #115

*Willis*

Lake Charles DISTRICT

(Three Copies to be Filed with the District Office)

NOTE: This Report Will be Returned if Not Properly Completed And Signed.

Field Crab Lake Parish Cameron Sec. 20 Twp. 15 S Rge. 5 W

Company Forest Oil Corporation Lease Dr. M. O. Miller SWD Well No. 1

Total Depth PBTD 2963' Condition of Well P & A

- 1. Surface Casing Size 16" Depth 120' Amount Pulled 0
- 2. Protection Casing Size 10 3/4" Depth 3094' Amount Pulled 0
- 3. Production Casing Size \_\_\_\_\_ Depth \_\_\_\_\_ Amount Pulled \_\_\_\_\_

CEMENT PLUGS

- 1. Depth 1942' To 1982' No. of Sacks 20 How Placed Rig pump
- 2. Depth 10' To 30' No. of Sacks 10 How Placed Rig pump
- 3. Depth \_\_\_\_\_ To \_\_\_\_\_ No. of Sacks \_\_\_\_\_ How Placed \_\_\_\_\_

Mud Record: Weight 9.5 Viscosity \_\_\_\_\_

Remarks: \_\_\_\_\_

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

*Bob S. Hayes*  
WITNESS

Forest Oil Corporation  
COMPANY

Original Signed By  
JOHN C. WILLIS *by OJP*

( Signed ) REPRESENTATIVE

# WORK ORDER PERFORATING GUNS ATLAS CORPORATION

No. 38525

BRANCH Lafayette, Louisiana

DATE 12-27-57

THIS WORK performed in accordance with terms and conditions specified on reverse side hereof, which we hereby approve and accept. Pricing, indicated hereon, subject to correction by our Invoicing Department, in accordance with latest price schedules.

CUSTOMER Forest Oil Corp.

By K. H. Ault

ADDRESS P. O. Box 1125, Lafayette, La. (OCS)

WELL NAME & NO. Miller #12

FIELD Crab Lake

COUNTY & STATE Cameron, La.

SERVICE CHARGE: (For a series of operations performed on the same set-up, only one service charge will be made)

### PERFORATE

From Depth	To Depth	Shots Per Foot	No. Shots in Area	Casing Size	Type of Perforating	Net Price
11778	11796	3	54	7"	Bullet	

### WIRE LINE BRIDGE PLUG

Size & Type	Depth	Serial Number	Brand Name	Casing Size	Casing Weight	Net Price

### WIRE LINE OR OTHER SERVICE CHARGES

Setting Service with junk catcher run included

**RECEIVED**  
 JAN 6 1958  
 DIST. DIVISION OF THE ATLAS  
 LAKE CHARLES

Operating time after first 3 hours (In connection with Wire Line Services) .....Hrs. @ \$15.00/hr.

Stand-by time charged @ \$10.00/hr.

Time Arrived on Job 2:30 <sup>A.M.</sup> ~~P.M.~~ 12/27 1957 Time of Leaving Job 7:00 <sup>A.M.</sup> ~~P.M.~~ 12/27 1957

Mileage One Way 55 Truck No. 38 Operator W. E. Beasley

## GENERAL CONDITIONS ATTENDING ALL SERVICES OF PGAC

**TERMS OF PAYMENT:** All accounts for the use and service of men, material and equipment furnished by PGAC shall be due in accordance with the invoice rendered. All accounts remaining unpaid after the expiration of 30 days from the date said use and service was furnished shall bear interest at the rate of 6% per annum. In the event the enforcement of the claim for indebtedness arising hereunder is placed in the hands of a collecting agency and/or an attorney for collection, the customer agrees to pay an extra charge of 10% of the total amount for collection fees.

**DIRECTION AND SUPERVISION:** PGAC in rendering services requested by the customer, does so as an independent contractor, recognizing that at all times the customer has complete custody and control of the well, the conditions created in the well, the drilling equipment and the well premises. A responsible representative of the customer must be present during the performance of our services, for the protection of both the customer and PGAC.

**INFORMATION:** Information obtained as a result of our services is held in strict confidence and will be released to others only upon written approval of the customer.

**INSURANCE:** PGAC agrees to carry at its own cost compensation insurance on its employees and public liability insurance on its operations.

**CONDITION OF CUSTOMER'S PROPERTY:** Customer certifies that the well in which the work ordered to be done is in proper and suitable condition for the performance of said work.

**DAMAGES AND INJURIES:** Due to the uncertain and unknown conditions and the incidental hazards under which the use and service of the men, material and equipment of PGAC is furnished to the customer, PGAC cannot be liable for injuries to persons or damages to property. Customer agrees that it will not hold PGAC or any of its agents liable for any damages of any kind to customer's well, be the same above or below the surface arising from any cause whatsoever. All the preceding terms and conditions shall also apply in favor of any manufacturer or supplier of any equipment that PGAC may use in the well.

**LOSS OF EQUIPMENT:** In the event that tools or equipment of PGAC should be lost in the performance of the work ordered, customer agrees to either recover the property lost without cost to PGAC or to pay for same.

**TRANSPORTATION OF EQUIPMENT TO WELL:** If in order to gain access to or return from the well to be serviced, it is necessary to repair roadbeds, or to provide tractors, barges or other special means of transportation for PGAC trucks, equipment or personnel, such shall be arranged and paid for by the customer.

**BARGE JOBS:** An additional charge of \$100 per round trip will be made when work is performed by a unit operating from a barge.

**TOW SERVICE:** When provided by PGAC tow service is charged \$150.00 for the first twenty-four hours or fraction. Each additional hour in excess of twenty-four is charged at \$10.00 per hour.

**MILEAGE CHARGE:** There is a free mileage zone of 150 miles driving radius from any one of our stations. The round trip mileage charge for every mile driven outside the free mileage zone is 50¢ per mile.

**STAND-BY TIME:** Stand-by Time is all that time spent at customer's location other than actual operating time. It includes periods PGAC is required to wait because of well conditions, testing, reconditioning, or customer's request. Time required for extra set-up or tear-down of PGAC equipment is considered Stand-by Time. Stand-by Time will be computed from the time PGAC equipment or crew arrives on location or the time scheduled by the customer, whichever is later.

When PGAC equipment is waiting at one well and is released to service another well, Stand-by Time will not apply against the first well while the equipment is away, but will be resumed upon return.

An allowance of 10 free hours will be made on Stand-by Time prior to commencement of first operation.

An allowance of 5 free hours of Stand-by Time is allowed for each different type of service performed on the same set-up.

Beyond these allowances, charge will be made at the rate of \$15.00 per hour.

**COMBINING OF JOBS:** Only those services performed on the same trip to the well will be combined under a single service charge. The release of PGAC crew and equipment will terminate the operation except when temporarily released at PGAC request to service another well.

**INCOMPLETED OPERATIONS:** No charge is applied if the operation is not completed due to failure of PGAC equipment. If an operation is attempted but cannot be completed due to well conditions, charges will be applied as follows:

- (1) Service Charge \$150.00.
- (2) Stand-by Charge if applicable.
- (3) Mileage Charge if applicable.

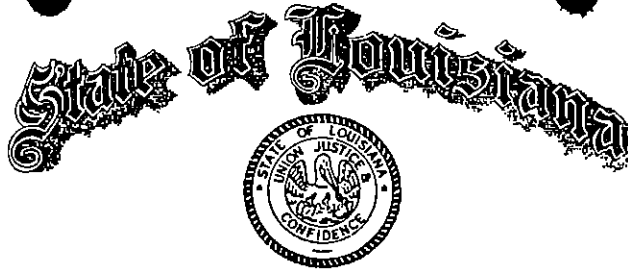
If an operation is cancelled by a customer on arrival at well, round trip mileage will be charged from the nearest location without the 300 mile mileage exemption. In case of a barge job, Stand-by Time is charged from the time the unit left the base until returned.

In both cases of an attempted job or of a cancelled job the towing charge is made, if applicable.

**TAXES:** Any tax based on the sale of tangible personal property and/or the rendering of services ordered shall be added to the stated price.

**PRICE CHANGES:** Prices are subject to change at any time.

No employee of PGAC is empowered to alter the published prices or the above terms and conditions.



EDWIN W. EDWARDS  
GOVERNOR  
B. JIM PORTER  
SECRETARY

**DEPARTMENT OF NATURAL RESOURCES**  
**OFFICE OF CONSERVATION**

HERBERT W. THOMPSON  
ASSISTANT SECRETARY  
AND  
COMMISSIONER

January 15, 1986

Cactus Petroleum  
P. O. Box 2800  
Midland, TX 79701

Re: Crab Lake Field  
Dr. M. O. Miller (SWD) Well #12  
Serial #068164  
Cameron Parish, LA

Gentlemen:

We have been advised by Forest Oil Corporation that you purchased the above-referenced well from them in 1970 or 1971.

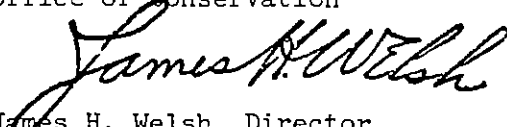
Records on file in this office still reflect Forest Oil Corporation as operator. If you did purchase this well from Forest Oil Corporation it will be necessary that you file Form MD-10-R-A, Application to Amend Permit to Drill for Minerals, in duplicate, with this office showing a change of operator to Cactus Petroleum. No fee is required for this change. Enclosed are blank Forms MD-10-R-A for your convenience in filing. In the event you are not the operator of the well, please so advise us.

Also, we have not received the Annual Saltwater Disposal Well Report for Calendar Year 1984. The report was due in this office by March 31, 1985. Please remit this report to us as soon as possible. For your convenience, we are enclosing the necessary form for filing.

If you have any questions, please write to the Injection & Mining Division or call 504/342-5515. Thank you for your cooperation.

Yours very truly,

HERBERT W. THOMPSON, Commissioner  
Office of Conservation

  
James H. Welsh, Director  
Injection & Mining Division

RM:lg  
Enclosure  
cc: Lake Charles District Office ✓