

*Well File*

## PETRO-TECH PERUANA S. A.

## FIELD REPORT

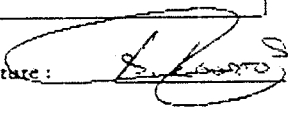
TO: Oscar Nieto  
 FROM: Alberto Agurto S.  
 SUBJECT: Perforating job in LO16-26 well 1<sup>st</sup> stage.  
 Lobitos Offshore area

**GEOSCIENCES**  
**Central File**

*Sep 26, 2002*

DATE	TIME	DESCRIPTION	DATE
Aug. 18 <sup>th</sup> .02	00:00	Arrived to location LO16 platform. Present Operation: Pepesa 48 WOC. Make up shooting valve & Relocated Halliburton equipment.	
	04:00-10:00	Rig up Halliburton's lubricator & calibrated tools. Down Log NGRT-CCL-DSNT. Recording from 8004' to 6000'.	
	10:00-12:00	Performed safety meeting with Halliburton people. Testing shooting valve & casing w/ 5000 psi. Ok. Filled w/ diesel Test lubricator with 2000 psi. Bled off.	
	12:00-14:15	Hook up gun Hallow Steel Carrier HSC 3 3/8" OD 3 spf. 1 <sup>st</sup> run perforated interval: 7963' - 7944' of <b>Lower Rio Bravo fm.</b> Sub total 39 shots. Wellhead pressure 450 psi	
	14:15-15:30	Hook up gun HSC 3 3/8" OD 3 spf. 2 <sup>nd</sup> run perforated interval: 7923' - 7904' of <b>Lower Rio Bravo fm.</b> Sub total 39 shots. Wellhead pressure 700 psi	
	15:30-16:30	Hook up gun HSC 3 3/8" OD 3 spf. 3 <sup>rd</sup> run perforated interval: 7825' - 7793' of <b>Lower Rio Bravo fm.</b> Sub total 48 shots. Wellhead pressure 700 psi	
	16:30-17:45	Hook up gun HSC 3 3/8" OD 3 spf. 4 <sup>th</sup> run perforated interval: 7791' - 7768' of <b>Lower Rio Bravo fm.</b> Sub total 36 shots. Wellhead pressure 750 psi	
	17:45-19:30	Hook up gun HSC 3 3/8" OD 3 spf. 5 <sup>th</sup> run perforated interval: 7762' - 7680' of <b>Lower Rio Bravo fm.</b> Sub total 57 shots. Wellhead pressure 800 psi.	
	19:30-20:00 20:00-21:30	Lay down Halliburton's lubricator and return to Talara. Wellhead pressure 950 psi. <b>Total 219 shots.</b> Pepesa 48 bled off the well to trip tank, flow diesel w/ 10 psi. Recovered 18.5 bls	
Aug. 19 <sup>th</sup> .02	21:30-06:30	K&C Cia. ran memory gauge to take initial pressure @ 7950'. Wellhead static pressure 930 psi. Static gradient formation 0.560 psi/ft. Bled off 16 bls diesel, BHF:1680 psi. Pull out gauge.	
	06:30-11:00	Open well to tank recovered 125 bls of diesel. Scheduled to frac job	

Date: Aug. 21<sup>st</sup> .02 Supervised by: Alberto Agurto S.

Signature: 

c.c.: G. Ruesta/ Res.Lima/ Crone/ Well File

 3182.

PETRO-TECH PERUANA S.A.

## FIELD REPORT

TO: OSCAR NIETO F.  
 FROM: Ricardo Corman Reyes  
 SUBJECT: Perforating and Fracing Job in LO16 - 26 well. Lobitos Offshore Area.  
 Rio Bravo fm. 2nd. Stage (Interval: 6833'-6575').

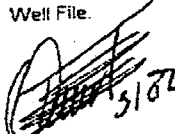
DATE	TIME	DESCRIPTION
Augt-24-02	15:00-20:00	POH 2 7/8" tbg. after set RBP at 7111'.
	20:00 - 24:00	Set and test Shooting Valve with 4000 psi. Next install lubricator and test at 1500 psi.
Augt-25-02	00:00 - 00:15	Halliburton Co gave a safety meeting.
	00:15 - 00:45	Prepare 3 3/8" OD guns (3 sh/ft).
	00:45 - 02:45	1st. Run Perforate:6833'-6828' ;6825'-6821';6818'-6814' & 6811'-6806' ;54 shots. WHP= 430 psi.
	02:45 - 03:15	Prepare 3 3/8" OD guns (3 sh/ft).
	03:15 - 04:30	2nd. Run Perforate:6799'-6796';6793'-6791' & 6777'-6773' ; 27 shots. WHP=430 psi.
	04:30 - 04:45	Prepare 3 3/8" OD guns (3 sh/ft).
	04:45 - 06:00	3rd. Run Perforate:6760' - 6756' ; 6736'-6732'; 6730'-6726' & 6722' - 6718' ; 48 shots. WHP=530 psi.
	06:00 - 06:15	Prepare 3 3/8" OD guns (3 sh/ft).
	06:15 - 07:30	4th. Run Perforate:6700' - 6696' ; 6672'-6666'; 6663'-6660' & 6655' - 6651' ; 51 shots. WHP=530 psi.
	07:30 - 07:45	Prepare 3 3/8" OD guns (3 sh/ft).
	07:45 - 08:30	5th. Run Perforate:6635'-6632';6626'-6622' & 6619'-6615'; 33 shots. WHP=450 psi.
	08:30 - 08:45	Prepare 3 3/8" OD guns (3 sh/ft).
	08:45 - 09:30	6th. Run Perforate:6602' - 6597' ;6595'-6593'; 6590'-6586' & 6579' - 6575' ; 45 shots. WHP=450 psi. TOTAL=258 shots.
	09:30 - 15:15	K & C company take Initial Pressure. WHP= 600psig. Memory Gauge at 6710'M (3938'V)=2026 psig. For. Gr=0.514 psi/ft.
	15:15 - 15:30	BJ personal made safety meeting with all personal location.
	15:30 - 15:55	Test frac line with 5,000 psi. ok.
	15:55 - 16:35	Made FRAC. This job does not finished due screen out Opened well WHP= 600 psi. Used 506 Bls. of gelled sea water (SPECTRA FRAC G 3000.) 530 sxs. Of sand 20/40 Average pressure: 2750 psi. Maximum press. : 5700 psi Minimum press. : 2600 psi 10' press. : 420 psi Rate : 18 bpm.
Augt-26-02	21:30	Open well with 1200 psi. dropped to 10 psi. On evaluation well.
	20:00	Whit 2 7/8" tbg. took sand top at 4486'. Clean out sand whit circulation
Augt-27-02	15:30	Clean out sad from 4488' to 6575'. POOH tbg.
	21:00	Start shooting 3rd. Stage.

Date: Augt-27-2002

Supervised by: Ricardo Corman R.

Signature: 

cc: G. Ruesta / Well File.

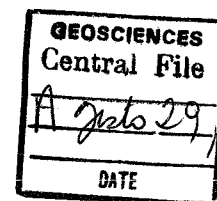


PETRO-TECH PERUANA S. A.

## FIELD REPORT

TO: Oscar Nieto  
 FROM: Malekov Robles Chávez.  
 SUBJECT: Perforating job (Rio Bravo fm.) in LO16-26 well.  
 Lobitos Offshore area

Aug-27-2002	14:00	Arrived to location LO16 - 26 well. P.O. Circulating to clean sand @ 6575'.
	14:00-18:00	Finished circulating, pull up string around 300' rih and check sand top @ 6575'. Pooh 2 7/8" tubing.
	18:00-19:45	Remove BOP and install shooting valve & Lubricator.
	19:45-20:45	Finished install lubricator, test with 1800 psi, shows leak in bleed off valve, change & test again with 1,800 psi O.K.
	20:45-21:00	Made security meeting with all personal around lacion.
	21:00-21:30	Halliburton, Hook up 3 3/8" OD guns ( 3 sh/ft ). Performed the 1st run. Perforated intervals: 6514'-6508', 6504'-6502' & 6499'-6497' of Rio Bravo formation Total 30 shots. Then POOH guns to surface. Pressure in wellhead 120 psi.
	21:30-23:45	Hook up 3 3/8" OD guns ( 3 sh/ft ). Performed the 2nd run. Perforated intervals: 6482'-6474' & 6461'-6453'. Total 48 shots. Then POOH guns to surface. WHP = 140 psi.
Aug-28-2002	003:45-24:00	Halliburton, Hook up 3 3/8" OD guns ( 3 sh/ft ) to 3 <sup>rd</sup> Run.
	00:00-00:35	Hook up 3 3/8" OD guns ( 3 sh/ft ). Performed the 3rd run. Perforated intervals: 6435'-6429', 6426'-6420' & 6416'-6414'. Total 42 shots. POOH guns to surface. Then POOH guns to surface. WHP = 170 psi .
	00:35-01:35	Hook up 3 3/8" OD guns ( 3 sh/ft ). Performed the 4th run. Perforated intervals: 6406'-6404', 6395'-6391' & 6388'-6383'. Total 33 shots. POOH guns to surface. Then POOH guns to surface. WHP = 250 psi .
	01:35-02:30	Hook up 3 3/8" OD guns ( 3 sh/ft ). Performed the 5th run. Perforated intervals: 6359'-6354', 6351'-6349' & 6344'-6342'. Total 27 shots. POOH guns. WHP = 350 psi .
	02:30-03:30	Hook up 3 3/8" OD guns ( 3 sh/ft ). Performed the 6th run. Perforated intervals: 6327'-6323', 6317'-6314' & 6310'-6307'. Total 30 shots. POOH guns. WHP = 400 psi .



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FROM: Malekov Robles Chávez.  
SUBJECT: **Perforating job (Rio Bravo fm.) in LO16-26 well.**  
**Lobitos Offshore area**

Aug-28-2002	03:30-04:25	Hook up 3 3/8" OD guns ( 3 sh/ft ). Performed the 7th run. Perforated intervals: 6303'-6300' & 6292'-6289'. Total 18 shots. POOH guns. WHP = 520 psi .
	04:25-05:50	Hook up 3 3/8" OD guns ( 3 sh/ft ). Performed the 8th run. Perforated intervals: 6266'-6260', 6244'-6242', 6240'-6238', 6237'-6235' & 6232'-6230'. Total 42 shots. POOH guns to surface. WHP = 530 psi .
	05:50-06:50	Hook up 3 3/8" OD guns ( 3 sh/ft ). Performed the 9th run. Perforated intervals: 6206'-6200'. Total 18 shots. POOH guns to surface. WHP = 530 psi .
	06:50-08:00	Halliburton nipple down lubricator & BJ Services hook up frac line over wellhead.
	11:30	Return to Talara.

Date: Aug.29.2002 Supervised by: Malekov Robles Ch. Signature :



c.c.: Drilling / Reservoir / Well File



OSCAR NIETO  
COD. 3182