ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
P. O. BOX 2088
Santa Fe, New Mexico 87501

September 9, 1982

Walsh Engineering and Production Corp.
P. O. Drawer 419
Farmington, New Mexico 87401

Attention: Ewell N. Walsh

Administrative Order TX-96

Gentlemen:

Reference is made to your request for an exception to the tubing setting requirements as contained in Division Rule 107(d)(2) for the below-named well.

Pursuant to the authority granted me by Rule 107(d)(4), you are hereby authorized to produce the following well through the 4 1/2-inch casing subject to the conditions set forth below:

LEASE NAME	WELL NO.	UNIT	S-T-R
Petroleum Corp. of Texas Bunce	3	A	19-29N-10W

This approval is granted until such time that the formation pressure and producing capability decrease to the pressure and producing capability that would allow removal of the frac head, installation of tubing head and run tubing, or that the produced fluids affect the producing capability of the well and it is advisable to have tubing in the well to remove the produced fluids.

pVZV2004436873

As a further condition to this approval, Petroleum Corporation of Texas shall be required to file seven-day shut-in pressure tests and production tests (including gas/liquid ratios) with this office and the Aztec office of the Division semi-annually for so long as the well is producing through casing.

Very truly yours,

JOE D. RAMEY,
Division Director

JDR/DSN/dr

cc: Oil Conservation Division - Aztec
Well File

WALSH ENGINEERING & PRODUCTION CORP.

Petroleum Engineering Consulting
Lease Management
Contract Pumping

3001 Northridge Drive
P.O. Drawer 419
Farmington, New Mexico 87401
(505) 327-4892

September 7, 1982

Mr. D. S. Nutter
Chief Engineer
Energy & Minerals Department
Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87501

Recd 9/8

REF: Petroleum Corporation of Texas
Bunce No. 3
Unit A, Sec. 19-T29N-R10W
San Juan County, New Mexico

Dear Mr. Nutter:

As per your request you will find attached a copy of the Multipoint and One Point Back Pressure Test for Gas Well for the above-referred-to well. As you may note the well was tested on September 3, 1982.

The well is completed in the Fruitland Formation and it is anticipated that the well will produce no condensate or oil and water production will be a minimal amount.

The well is currently waiting on a connection to a gas gathering system.

If you need any additional information please do not hesitate to call upon me.

Very truly yours,

Ewell N. Walsh, P.E.
President

ENW:rr
cc: Frank Osborne, Petroleum Corp. of Texas

Enclosure

NEW MEXICO OIL CONSERVATION COMMSSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test: [XX] Initial [ ] Annual [ ] Special				Test Date: 9/3/82	
Company: PETROLEUM CORP. OF TEXAS			Connection: None		
Pool: Aztec Fruitland			Formation: Fruitland		Unit
Completion Date: 8/25/82	Total Depth: 1995'		Plug Back TD: 1831'	Elevation: 5558'G.L.	Farm or Lease Name: Bunce
Csg. Size: 4.500 / Wt.: 10.50 / d: 4.000 / Set At: 1995'			Perforations: From 1639' To 1659'		Well No.: 3
Tbg. Size: NONE / Wt.: — / d: — / Set At: —			Perforations: From — To —		Unit: A / Sec.: 19 / Twp.: 29N / Rge.: 10W
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single - Gas			Packer Set At		County: San Juan
Producing Thru: Casing	Reservoir Temp. °F: 102 @ 1995	Mean Annual Temp. °F: 60°	Baro. Press. – P_a: 12.0		State: New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
1639		.60						

	FLOW DATA				TUBING DATA		CASING DATA		
NO.	Prover Line Size X Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow
SI					None		565		7 days
1.	3/4 THC				None		224		3 hrs.
2.									
3.									
4.									
5.									

RATE OF FLOW CALCULATIONS

NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P_m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	12.3650		238	1.000	1.000	1.000	2942
2.							
3.							
4.							
5.							

NO.	P_t	Temp. °R	T_r	Z
1.				
2.				
3.				
4.				
5.				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas _____ XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX _____
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

P_c 577 P_c^2 332,929

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1	55,696	238	56,513	276,416
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.204$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.1709$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 3444$

Absolute Open Flow 3444 Mcfd @ 15.025 | Angle of Slope θ _____ | Slope, n 0.85

Remarks: _____

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Bill Matthews	Dewayne Blancett	

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
AZTEC DISTRICT OFFICE

1000 RIO BRAZOS ROAD
AZTEC, NEW MEXICO 87410
(505) 334-6178

OIL CONSERVATION DIVISION
BOX 2088
SANTA FE, NEW MEXICO 87501

DATE Sept 7, 1982

RE: Proposed MC _____
Proposed DHC _____
Proposed NSL _____
Proposed SWD _____
Proposed WFX _____
Proposed PMX _____
TX ✓

Gentlemen:

I have examined the application dated September 1, 1982

for the Petroleum Corp. of Texas Bruce #3 A-19-29N-10W
Operator Lease and Well No. Unit, S-T-R

and my recommendations are as follows:

Approve

Yours truly,

RECEIVED
SEP - 9 1982
OIL CONSERVATION DIVISION
SANTA FE

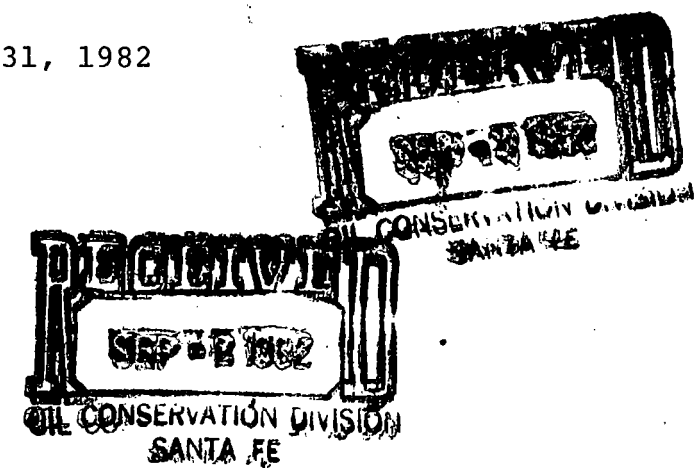
WALSH ENGINEERING & PRODUCTION CORP.

Petroleum Engineering Consulting
Lease Management
Contract Pumping

3001 Northridge Drive
P.O. Drawer 419
Farmington, New Mexico 87401
(505) 327-4892

Sent note to Red Walsh requesting test data 9/2/82

August 31, 1982



Mr. Joe D. Ramey, Director
State of New Mexico
Energy & Minerals Department
Oil Conservation Commission
P. O. Box 2088
Santa Fe, New Mexico 87501

REF: Petroleum Corporation of Texas
Bunce No. 3
Unit A, Section 19-T29N-R10W
San Juan County, New Mexico

Dear Mr. Ramey:

This is a request, on behalf of the above-referred-to operator for administrative approval of an exception to Rule No. 107 - Casing and Tubing Requirements of the Energy and Minerals Department, Oil Conservation Division, Rules and Regulations.

The above-referred-to well has been completed and stimulated, Foam Frac, in the Fruitland formation. The perforated intervals are 1639 ft. to 1647 ft. and 1653 ft. to 1659 ft. After stimulation the well was shut-in by shuting in the valves on the frac head.

The frac head was left on the well during flow back and clean up of the formation. After clean up of the formation the well produced such a volume of natural gas that it was determined that it would be necessary to kill the well with fluid to remove the frac head install a tubing head and run tubing.

Due to the probability of any fluid utilized to kill the well affecting the producing capability of the well a decision was made to not kill the well to remove the frac head.

Therefore, it is requested that an exception to Rule No. 107, in so far as tubing requirements, be granted until (1) such time that the formation pressure and producing capability decrease to the pressure and producing capability that would allow removal of the frac head, installation of tubing head and run tubing, or (2) at such time that produced fluids affect the producing capability of the well and it will become necessary to have tubing in the well to remove the produced fluids.

Attached you will find a schematic drawing of the down-hole equipment in the well.

Thank you for your consideration and cooperation in this request.

Very truly yours,

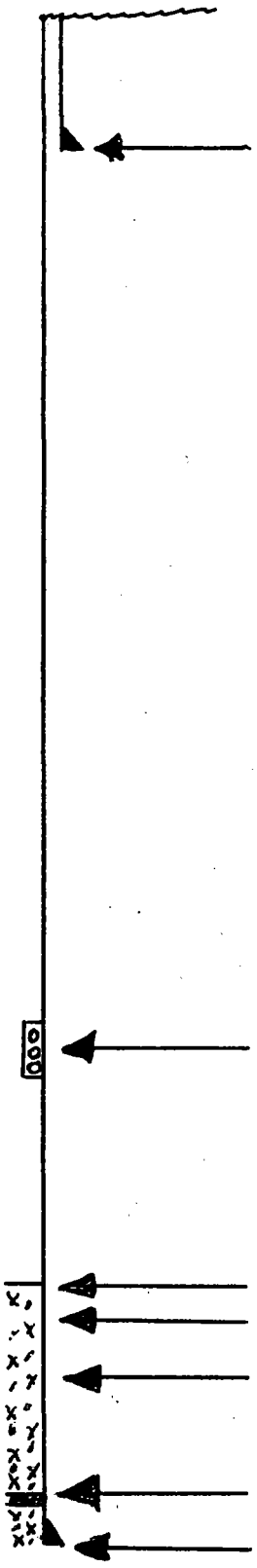
Ewell N. Walsh, P.E.
President

ENW:cc

Enclosure

cc: Frank Chavez, NMOCD, Aztec, N.M.
Frank Osborne, Petroleum Corp. of Texas, Breckenridge, Tex.

PETROLEUM CORPORATION OF TEXAS
BUNCE NO. 3
Unit A, Section 19-T29N-R10W
San Juan County, New Mexico



8 5/8", 24.0 lb., J-55 casing set at 184' K.B.
Cement circulated to surface.

Fruitland perforations 1639'-1647' & 1653'-1659' K.B.

Baffle at 1831', K.B.
Top of Pictured Cliffs formation at 1856'.

Cement in 4 1/2" casing from baffle to casing shoe.

Float collar at 1953'.

T. D. - 1995'. 4 1/2", 10.50 lb., J-55 casing set at 1995'. Cement circulated to surface.