

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☐ gas ☒ other ☐

2. NAME OF OPERATOR
Jerome P. McHugh

3. ADDRESS OF OPERATOR
P O Box 208, Farmington, NM 87401

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 705' FNL - 790' FWL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
CHANGE ZONES ☐
ABANDON* ☐
(other) ☐

SUBSEQUENT REPORT OF:

RECEIVED
JUN 24 1983
UTS GEOLOGICAL SURVEY
FARMINGTON, N.M.
XX Instructions

(NOTE) Report results of multiple completion or zone change on Form 9-330.)

5. LEASE
NM 23026

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Federal

9. WELL NO.
11

10. FIELD OR WILDCAT NAME
Gavilan PC So. Blanco Ext.

11. SEC., T. R., M. OR BLK. AND SURVEY OR AREA
Sec 18 T24N R1W

12. COUNTY OR PARISH
Rio Arriba

13. STATE
NM

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
7437' GL

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

See reverse for report of test conducted 6-10-83 and witnessed by Marko Keeman and Mark Kelly.

RECEIVED
JUN 29 1983
OIL CON. DIV.
DIST. 3

Subsurface Safety Valve: Manu. and Type

18. I hereby certify that the foregoing is true and correct

SIGNED Thomas A. Dugan TITLE Agent DATE 6-23-83

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

NMOCC

Jerome P. McHugh
Federal #11

SITP 538 psi SICP 600 psi

11:00 a.m. Opened tubing on 7/16" choke; blew 2 min. and died.

11:15 a.m. Dropped soap sticks down tubing.

11:30 a.m. Dropped soap stick down tubing.

11:45 a.m. Dropped soap sticks down tubing.

12:00 noon Tubing unloaded soapy water.

12:15 p.m. Unloading gas and heavy spray of water

12:20 p.m. Tubing died. Tubing might be partially plugged. Decided to
flow well on casing.

12:30 p.m. Casing pressure increased to 640 psi.

12:34 p.m. Opened well on casing through 7/16" choke.

1:04 p.m. Tubing zero, choke pressure 150 psi, flow rate 675 MCF

1:34 p.m. Tubing zero, choke pressure 150 psi, flow rate 675 MCF

1:44 p.m. Tubing zero, choke pressure 110 psi, flow rate 506 MCF

Spray of water throughout test on casing.

See attached copy of back pressure test.

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test <input type="checkbox"/> Initial <input type="checkbox"/> Annual <input checked="" type="checkbox"/> Special				Test Date 6-10-83		RECEIVED	
Company Jerome P. McHugh				Connection			
Pool Gavilan				Formation Pictured Cliffs			
Completion Date 12-3-81		Total Depth 3620'		Plug Back TD 3605'		Elevation 7437'	
Csg. Size 4 1/2"		Wt. 10.5#		Set At 3620'		Perforations: From 3481 To 3498	
Tbg. Size 1 1/2"		Wt. 2.4#		Set At 3480'		Perforations: From open ended	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single - gas				Packer Set At None		County Rio Arriba	
Producing Thru casing		Reservoir Temp. °F #		Mean Annual Temp. °F		Baro. Press. - P _a	
L		H		G _g 0.62 est.		% CO ₂	
				% N ₂		% H ₂ S	
				Prover		Meter Run	
				Taps			

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
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
SI							538		600		
1.							0		640--after flow		on tbg.
2.		7/16					0		110	60	1 hr. 10 min.
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							
2	4.1712		122	1.000	.9837	1.011	506
3							
4							
5							

NO.	P _t	Temp. °R	T _g	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.					Specific Gravity Separator Gas _____ X X X X X X X X
3.					Specific Gravity Flowing Fluid _____ X X X X X
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

P _c 612 P _c ² 374,544				
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1				
2	14,884	122.2	14,922	359,622
3				
4				
5				

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.0415$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^{.85} = 1.0352$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 524$$

Absolute Open Flow 524 Mcfd @ 15.025		Angle of Slope @ _____	Slope, n .85
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Remarks: flow on casing - spray water

Approved By Division	Conducted By:	Calculated By:	Checked By:
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