

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPPLICATE*
(Other instructions on reverse side)

Budget Bureau No. 1004-0135
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.

SF-081239

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

L.C. Kelly

9. WELL NO.

5

10. FIELD AND POOL, OR WILDCAT

Basin Dakota/Flora Vista GP

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

NE/SE Sec. 3, T30N, R12W

12. COUNTY OR PARISH 13. STATE

San Juan

NM

1. OIL WELL ☐ GAS WELL ☒ OTHER

2. NAME OF OPERATOR

Amoco Production Company

3. ADDRESS OF OPERATOR

501 Airport Drive, Farmington, NM 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)
At surface

1790' FSL x 915' FEL

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FEB 01 1985

14. PERMIT NO.

15. ELEVATIONS (Show

5824' GR

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

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.)*

Amoco Production Company requests approval to repair the subject well according to the attached procedure.

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FEB 20 1985

OIL CON. DIV.
DIST. 3

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

SIGNED

E. D. Shaw

TITLE Administrative Supervisor

DATE

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

1985
M. MILLENBACH
AREA MANAGER

*See Instructions on Reverse Side

FARMINGTON DISTRICT WORKOVER

DATE: 1-28-85

OPERATIONS TO BE PERFORMED: (CIRCLE ONE)

RECOMPLETION REPAIR SERVICE

LEASE AND WELL L. C. Kelly No 5

FIELD Basin Dakota / Flora Vista Gallup

FORMATION Dakota / Gallup

LOGS Sonic - GR

LOCATION SE 1/4, Section 3, T30N, R12W

San Juan Co., N.M.

COMP. DATE 12-30-64 EL: 5837 KB

TD: 6816 PBD: 6739

CSG: 8 5/8" 24 # J-55 @ 373 ' : 5 1/2" 14 # J-55 @ 6816 '
Dakota 6696-6672 Dakota 5020001 x 3500014

COMP. INT. Gallup 6001-5991

ORIG. STIM. Gallup 18,170 gal X 14,000 lb

IN Dakota 1793 mcfD

CURRENT PROD. INT.

IP Gallup 567 MCFD

PURPOSE: Isolate and Repair Casing Leak - Restimulate Gallup

WJH TKA

GOM
DHS

MCH
RGH
BVD

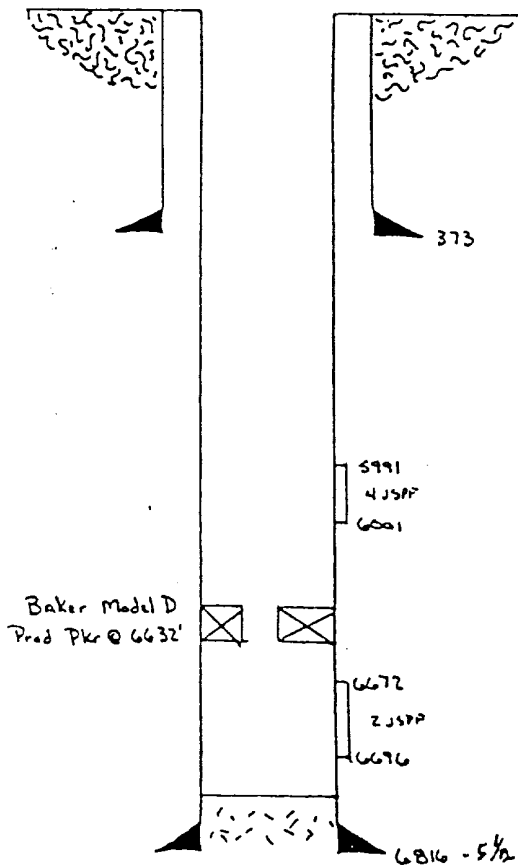
5/PERMITTING DESK

ENGR FILE

Stimulation: Halliburton
Wireline: Welox

WELLBORE SKETCH

PROCEDURE



1. Trip out with 1 1/2 inch tubing.
Hydrotest and lay down ANY bad joints.
2. Pick up and trip in with 2 7/8 inch tubing
a packer and tubing set - tubing retrievable
bridge plug. Set the bridge plug at
5900 feet.
3. Pressure Test the casing with pkr and tubing
to isolate casing leaks.
4. Report leaks to the MAIN Office.
A cement squeeze will be designed based
on the extent of the leaks.
5. Following all necessary remedial cement work,
trip in with 2 7/8 inch tubing and retrieving
head. Unseat the bridge plug at 5900 feet.
Trip out with bridge plug.

DISTRICT MANAGER Ng Hira

DISTRICT ENGINEER *Jim Attendas*

DISTRICT FOREMAN *J. W. Evans* *2*

ENGINEER Randy Rickard

DATE 1-29-85 0

6. Trip in with $2\frac{7}{8}$ inch tubing and a mill. Mill up the Baker Model D production packer located at 6632 feet. Clean out to PBD at 6779 feet with nitrogen
7. Run a gamma ray correlation from PBD to 5800 feet.
8. Wireline set a tubing retrievable bridge plug at 6200 feet
9. Perforate Sonic log interval 5964' - 6006' with 4 JSPF
10. Trip in with $2\frac{7}{8}$ inch tubing and packer. Set the packer at 5800 feet.
11. Frac the Gallup through tubing with 55,000 gallons of 75 quality foam containing 2% KCl, 20 lb gelled water, 1 gal of surfactant per 1000 gal water, 2725 scf of N_2 per barrel of water, and 60,000 lb of 20-40 sand.

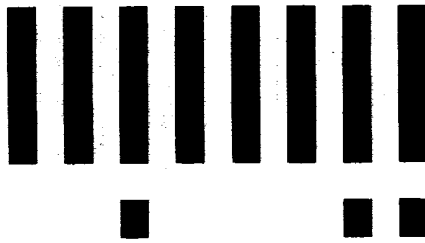
	<u>Foam Volume</u>	<u>Slurry Volume</u>	<u>Concentration</u>
A	20,000 gal	20,000 gal	PAD
B	10,000 gal	10,455 gal	1.0 ppq
C	25,000 gal	27,275 gal	2.0 ppq
D	Flush with 1500 gallons of foam		

12. Shut in for 24 hrs before flowing back
13. Flow back through A.O.25 inch choke
14. Trip out with $2\frac{7}{8}$ inch tubing and packer
15. Trip in with $2\frac{7}{8}$ inch tubing and retrieving head. Retrieve the bridge plug at 6200 feet. Trip out. Lay down $2\frac{7}{8}$ " tbg.
16. Trip in with $1\frac{1}{2}$ inch production tubing and land at 6720 feet.

16. Hook well up to production facilities and flow into the sales line.

Notes

1. AIR = 15 - 20 BPM
2. MAX Casing Pr = 2000psi
3. MAX tubing Pr = 8500psi.
4. Use Brady Texas 20-40 SAND.
5. Report All load fluids.
6. Perforate with a maximum of 500 feet of water above the top perf (Fluid level at 5464 feet from surface.



LTR



Job separation sheet

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Und. Gallup Formation Gallup County San Juan
Initial I Annual _____ Special _____ Date of Test 12-30-64
Company PAN AMERICAN PETROLEUM CORP. Lease L. G. Holly Well No. 5
Unit I Sec. 3 Twp. 30N Rge. 12W Purchaser _____
Casing 3-1/2 Wt. 15.3 I.D. _____ Set at 6816 Perf. 3991 To 6001
Tubing 1-1/2 Wt. 2.7 I.D. _____ Set at 6011 Perf. 3978 To 3904
Gas Pay: From 3991 To 6001 L 3996 xG .700 -GL 4197 Bar.Press. 12
Producing Thru: Casing _____ Tubing _____ Type Well Dual
Date of Completion: 12-15-64 Packer 6432 Single-Bradenhead-G. G. or G.O. Dual
Reservoir Temp. _____

OBSERVED DATA

Tested Through (Prover) (Choke) (Meter) Type Taps _____

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI	<u>15 days</u>					<u>1178</u>		<u>1178</u>		
1.	<u>2 inch</u>	<u>.730</u>	<u>36</u>			<u>36</u>	<u>60° est.</u>	<u>194</u>	<u>60° est.</u>	<u>3 Hr.</u>
2.										
3.										
4.										
5.										

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_w P_f}$	Pressure psia	Flow Temp. Factor F _t	Gravity Factor F _g	Compress. Factor F _{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
1.	<u>12.3650</u>		<u>48</u>	<u>1.000</u>	<u>.9238</u>	<u>1.007</u>	<u>334</u>
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
F_c _____ (1-e^{-s})
Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c 1190 P_c 1,415,100

No.	$\frac{P_w}{P_t}$ (psia)	P _t ²	F _c Q	(F _c Q) ²	$\frac{(F_c Q)^2}{(1-e^{-s})}$	P _w ²	P _c ² -P _w ²	Cal. P _w	$\frac{P_w}{P_c}$
1.						<u>58,436</u>	<u>1,373,644</u>		
2.									
3.									
4.									
5.									

Absolute Potential: _____ MCFPD; n _____
COMPANY PAN AMERICAN PETROLEUM CORPORATION
ADDRESS Box 400, Farmington, New Mexico
AGENT and TITLE F. L. Mahers, District Engineer
WITNESSED By: ORIGINAL SIGNED BY
COMPANY F. W. Foell

REMARKS

RECEIVED

JAN 5 1965

OIL CON. COM.
DIST. 3

INSTRUCTIONS

This form is to be used for reporting multi-point back pressure tests on gas wells in the State, except those on which special orders are applicable. Three copies of this form and the back pressure curve shall be filed with the Commission at Box 871, Santa Fe.

The log log paper used for plotting the back pressure curve shall be of at least three inch cycles.

NOMENCLATURE

- Q = Actual rate of flow at end of flow period at W. H. working pressure (P_w).
MCF/da. @ 15.025 psia and 60° F.
- P_c = 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater.
psia
- P_w = Static wellhead working pressure as determined at the end of flow period.
(Casing if flowing thru tubing, tubing if flowing thru casing.) psia
- P_t = Flowing wellhead pressure (tubing if flowing through tubing, casing if
flowing through casing.) psia
- P_f = Meter pressure, psia.
- h_w = Differential meter pressure, inches water.
- F_g = Gravity correction factor.
- F_t = Flowing temperature correction factor.
- F_{pv} = Supercompressability factor.
- n = Slope of back pressure curve.

Note: If P_w cannot be taken because of manner of completion or condition of well, then P_w must be calculated by adding the pressure drop due to friction within the flow string to P_t .