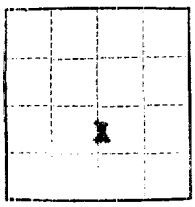
Form 9-331a
(Feb. 1951)



(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Budget Bureau No. 42-R358.4.
Approval expires 12-31-60.

Land Office Santa Fe
Lease No. 077943A
Unit C. A. McAdams "B"

SUNDRY NOTICES AND REPORTS ON WELLS

RECEIVED
FEB 13 1959
GEOLOGICAL SURVEY
FARMINGTON, NEW MEXICO

NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	X
NOTICE OF INTENTION TO ABANDON WELL			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

C. A. McAdams "B" Farmington, New Mexico February 11, 1959

Well No. 1 is located 1850 ft. from {N/S} line and 1650 ft. from {E/W} line of sec. 28

NW/4 of Section 28 (¼ Sec. and Sec. No.) T27N (Twp.) R10W (Range) N.M.P.M. (Meridian)

Wildcat (Field) San Juan (County or Subdivision) New Mexico (State or Territory)

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The elevation of the derrick floor above sea level is 6109 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

C. A. McAdams "B" Well No. 1. Moved in completion unit January 18, 1959, spotted 500 gallons breakdown acid over Dakota zone to be perforated. Perforated two shots per foot 6362-6402, 6419-6459. Sand-water fracked with 58,000 gallons water and 57,500 pounds sand. Formation broke at 1900 pounds, treating pressure 1650 pounds to 2300 pounds. Injection rate 43 barrels per minute. Injected 40 rubber ball sealers after 600 barrels and 40 rubber ball sealers after 900 barrels. Finished at 2800 pounds. Well blew in at estimated 7000 MCFPD and after 9 hours, gauged 1065 MCFPD. Killed well with mud. Cleaned out frac sand to 6554'. Set bridge plug at 5782 and tested with no drop in pressure. Displaced mud with oil and spotted 500 gallons breakdown acid over Gallup. Perforated Gallup with four shots per foot 5706-5738. Attempted sand-oil frac with 30,000 gallons oil and 30,000 pounds sand. Formation broke at 1800 pounds. After pumping 15,000 gallons oil and 15,000 pounds sand, treating pressure 1800-1600 pounds (See reverse side)

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Pan American Petroleum Corporation

Address Box 467

Farmington, New Mexico

ORIGINAL SIGNED BY
R. M. Bauer, Jr.

By

Title Field Engineer

GPO 862040

[illegible] sharp increase to 2800 pounds and sanded off. Average injection rate 43 barrels per minute. Estimated [illegible] pounds sand in formation. Ran tubing and found top of sand at 5980'. Circulated out sand to plug back depth. Started second frac and pumped in oil at 8 barrels per minute with [illegible] pounds. Ran RTTS packer and set at 5674'. Additional perforations with 1000 gallons break down acid with steady treating pressure 1200-1500 pounds and injection rate 3 barrels per minute. Pulled tubing and packer. Sand-oil fracked with 27,700 gallons oil and 2[illegible],500 pounds sand. Treating pressure [illegible] pounds. Average injection rate 24 barrels per minute. After dumping [illegible] oil, attempted to frac with 400 barrels distillate and no sand, using 20 gallons frac flow in first 2000 gallons oil. After 38 barrels distillate into formation pressured up to 2800 pounds, with 4 barrels per minute. Ran RTT packer set at 5648. Pumped down 2" tubing with 300 barrels distillate. Breakdown pressure 1500 pounds, treating pressure 1500, average injection rate 4 barrels per minute. Pulled packer. Ran 2" Gallup tubing set at 5739'. Ran rods and pump and released completion unit on February 5, 1954. Presently testing and recovering load from Gallup formation.

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122
Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Angels Peak Dakota Formation Dakota County San Juan

Initial X Annual ____ Special ____ Date of Test 5-19-59

Company Pan American Petroleum Corporation Lease C. A. McAdams "B" Well No. 1

Unit J Sec. 28 Twp. 27N Rge. 10W Purchaser El Paso Natural Gas Company

Casing 7 Wt. 20 I.D. 6.456 Set at 6601 Perf. 6362 To 6459

Tubing 2-3/8 Wt. 4.7 I.D. 1.995 Set at 6357 Perf. 6390 To 6357

Gas Pay: From 6362 To 6459 L 6390 xG 0.70(est.) GL 4445 Bar.Press. 12

Producing Thru: Casing ____ Tubing X Type Well Dual - Gas & Oil
Single-Bradenhead-G. G. or G.O. Dual

Date of Completion: 5-11-59 Packer 6287 Reservoir Temp. 136° F

OBSERVED DATA

Tested Through ~~(Prover)~~ (Choke) ~~(Meter)~~ Type Taps ---

No.	Flow Data (~~Prover~~) (Line) Size	(Choke) (~~Orifice~~) Size	Press. psig	Diff. h_w	Temp. °F.	Tubing Data Press. psig	Tubing Data Temp. °F.	Casing Data Press. psig	Casing Data Temp. °F.	Duration of Flow Hr.
SI	Shut in 8 days					1985		---	---	
1.	2-in.	3/4-in.	220		60°(est)	240	60°(est.)	---	---	3 hours
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.	11.365		232	1.000	0.9258	1.027	2787
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio ____ cf/bbl.
Gravity of Liquid Hydrocarbons ____ deg.
F_c 9.402 $(1-e^{-s})$ 0.276

Specific Gravity Separator Gas ____
Specific Gravity Flowing Fluid ____
P_c 1997 P_c^2 3,988,009

No.	P_w P_t (psia)	P_t^2	F_cQ	$(F_cQ)^2$	$\frac{(F_cQ)^2}{(1-e^{-s})}$	P_w^2	$P_c^2-P_w^2$	Cal. P_w	$\frac{P_w}{P_c}$
1.	252	63,504	25.639	657.358	181,431	244,935	3,743,074	495	0.248
2.									
3.									
4.									
5.									

Absolute Potential: 2860 MCFPD; n 0.75
COMPANY Pan American Petroleum Corporation
ADDRESS Box 487, Farmington, New Mexico
AGENT and TITLE R. M. Bauer, Jr., Area Engineer RM Bauer Jr.
WITNESSED ____
COMPANY ____

REMARKS

RECEIVED
MAY 25 1959
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.