

N. M. O. C. C. COPY
UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY(See other in-
structions on
reverse side)Form approved.
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ DRY ☐ Other Injection

b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other Injection

2. NAME OF OPERATOR

McClellan Oil Corporation

3. ADDRESS OF OPERATOR

Box 848, Roswell, New Mexico

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface

810' FNL & 1490' FNL
At total depth

At total depth

NOV 24 1976

14. PERMIT NO.

DATE ISSUED

15. DATE SPUN IN DATE T.D. REACHED

17. DATE COMPL. (Ready to prod.)

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD

21. PLUG, BACK T.D., MD & TVD

22. IF MULTIPLE COMPL.,
HOW MANY*23. INTERVALS
DRILLED BY

ROTARY TOOLS

CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*

25. WAS DIRECTIONAL
SURVEY MADE

1960-1970

26. TYPE ELECTRIC AND OTHER LOGS RUN

Gamma ray-neutron

27. WAS WELL CORED

No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8 5/8"	20	380	10 1/4"	100 sx circ.	
5 1/2"	15 1/2 lb.	2010'	8"	150 sx	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number)

1960-1970 2 sts./ft.

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
1960-1970	250 acid: Fraces with 15,000 wtr. 15,000lb. sand

33.*

PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
8/17/76		Flowing				Injection	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
8/11/76	24	16/64"	→				
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
231 lbs.		→	0	343 Aof	0	-----	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

Converted to injection well 10-18-76

TEST WITNESSED BY

Cleo Brown

35. LIST OF ATTACHMENTS

3 copies of 4-point back pressure test

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

Jack J. McClellan

TITLE Operator

DATE 11/19/76

*(See Instructions and Spaces for Additional Data on Reverse Side)

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on Items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROSITY ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORREL INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES				38. GEOLOGIC MARKERS		
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TRUE VEET. DEPTH
Queen sand	1960'	1970'	Gray sand--Gas	Yates	1228'	
				Queen	1958'	

RECEIVED

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT. AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

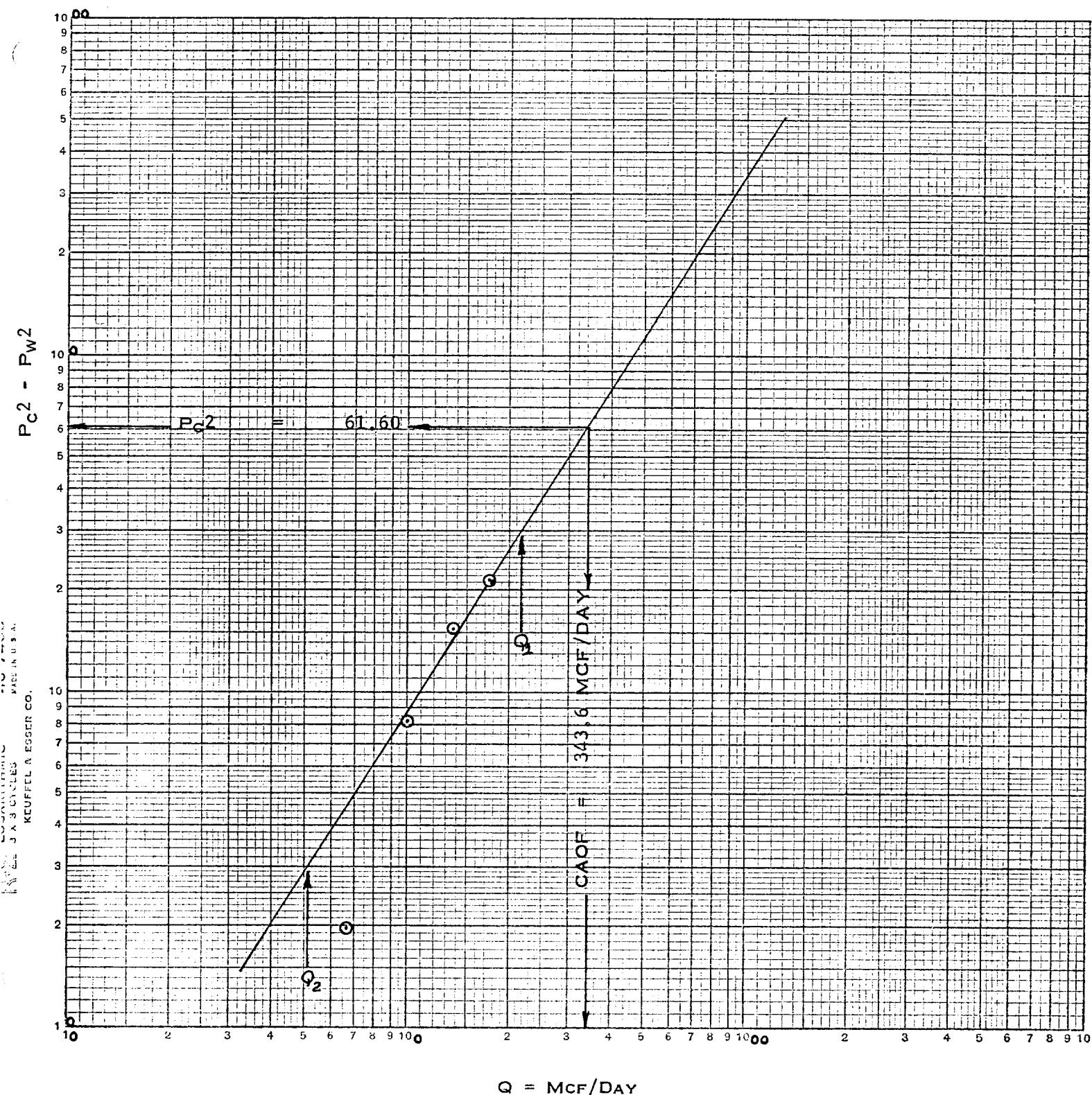
Form C-122
Revised 9-1-65

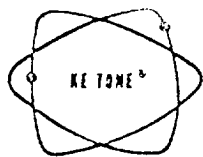
NOV 24 1976

RECEIVED

Type ☒ Initial ☐ Annual ☐ Special		Test Date 8-11-76	
Company McCLELLAN OIL CORPORATION		Connection TO AIR	
Pool <i>Sullimar Queen</i> SULLIMAR		Formation QUEEN	
Completion Date 8-1-76		Total Depth 2012 2,000'	Plug Back TD 2000
Csg. Size 5 1/2"		WI. 17#	d 4.892"
Tbg. Size 2 3/8"		Wt. 4.6#	d 1.995"
Set At 2,000'		Perforations: From 1,960' To 1,970'	
Set At 1,923'		Perforations: From To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple		Packer Set At NONE	County CHAVES
Producing Thru TUBING		Reservoir Temp. *F 60	Baro. Press. - P _g 13.2
L 1965		H 1965	Gg 0.8795
% CO ₂ -----		% N ₂ 57.858	% H ₂ S -----
Prover POSITIVE CHOKES		Meter Run	Taps
State NEW MEXICO		TRACT 1 No. 12	
Unit C		Sec. 24	Twp. 15S
Range 29E		Well No.	
Farm or Lease Name SULLIMAR QUEEN UNIT		Unit C	
Sec. 24		Twp. 15S	Range 29E
Flow Data		TUBING DATA	
Casing Data		Duration of Flow	
NO.	Prover Line Size	Orifice Size	Press. p.s.i.g.
SI			
1.	8/64		231.0
2.	10/64		218.0
3.	12/64		202.0
4.	14/64		188.0
5.			
RATE OF FLOW CALCULATIONS			
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m
1	0.2618	NOT APPLICABLE	244.2
2	0.4173		231.2
3	0.6101		215.2
4	0.8419		201.2
5			
Gas Liquid Hydrocarbon Ratio <u>DRY GAS</u> Mcf/bbl.			
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.			
1.	0.26	552	1.57
2.	0.25	552	1.57
3.	0.23	553	1.58
4.	0.22	553	1.58
5.			
Specific Gravity Separator Gas <u>0.8795</u> X X X X X X X X			
Specific Gravity Flowing Fluid <u>X X X X X</u>			
Critical Pressure <u>927</u> P.S.I.A. _____ P.S.I.A.			
Critical Temperature <u>351</u> R _____ R			
P _c <u>248.2</u> P _c ² <u>61.60</u>			
NO	P _c ²	P _w	P _w ²
1	59.63	244.2	59.63
2	53.45	231.2	53.45
3	46.31	215.2	46.31
4	40.48	201.2	40.48
5			
(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.917$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.961$			
AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 343.6$			
Absolute Open Flow <u>343.6</u> Mcfd @ 15.025 Angle of Slope <u>57.8°</u> Slope, n <u>0.629</u>			
Remarks: <u>FRICITION IS NEGLIGIBLE</u>			
<u>AVERAGE SLOPE DRAWN THROUGH RATES 2, 3 & 4 TO CALCULATE POTENTIAL.</u>			
Approved By Commission:		Conducted By: G. PARKER	Calculated By: R. WEST
		Checked By: J. WEST	

$$\text{CAOF} = 175.2 \left(\frac{61.60}{21.12} \right)^{0.629} = 343.6 \text{ MCF/DAY}$$





P. O. BOX 1499

OF NEW MEXICO

PHONE (505) 393-7751

HOBBS, NEW MEXICO 88240

No. 5322
Run No. _____
Date of Run 8-27-76
Date Secured _____

CERTIFICATE OF ANALYSIS

Sample of SULLINAR QUEEN UNIT TRACT / WELL #12
Secured from JOHN WEST ENGINEERING
412 NORTH DEL PASO
HOBBS, N.M.
Secured by _____
Time _____ Date _____
Sampling conditions _____
Press _____
Temp. _____

NOV 24 1976

O. C. C.
ARTESIA, OFFICE

FRACTIONAL ANALYSIS

Percentage Composition

	MOL %	LIQ. %	G.P.M.
Carbon Dioxide	<u>Nil</u>		
Nitrogen	<u>57.858</u>		
Oxygen			
Hydrogen sulfide			
Hydrogen			
Ethane	<u>31.771</u>		
Propane	<u>5.260</u>		<u>1.403</u>
Isobutane	<u>3.465</u>		<u>.955</u>
Normal Butane	<u>.485</u>		<u>.158</u>
Isopentane	<u>.579</u>		<u>.182</u>
Normal Pentane	<u>.211</u>		<u>.077</u>
Isopentane	<u>.241</u>		<u>.087</u>
Hexanes	<u>.038</u>		<u>.016</u>
Heptanes	<u>.092</u>		<u>.039</u>
TOTAL	<u>100.000</u>		<u>2.917</u>

Calc. Sp. Gr. 0.8795
Calc. A.P.I. _____
Calc. Vapor Press. _____ PSIA
Sp. Gr. _____
Mol. Wt. 25.53

LIQUID CONTENT (GAL./MCF)

Propane Calc. G.P.M. .955
Butanes Calc. G.P.M. .340
Pentanes Plus. G.P.M. .219
Ethane Calc. G.P.M. 1.403
_____ RVP Gasoline G.P.M. _____
B.T.U./Cu. Ft. @ 14.696 P.S.I.A.
Dry Basis _____
Wet Basis _____
Sulfur Analysis by Titration
Gr./100 Cu. Ft. _____
Hydrogen Sulfide _____
Mercaptans _____
Sulfides _____
Residual Sulfur _____
Total Sulfur _____

by Leanne Simpson Checked by _____ Approved by _____

Additional Data and Remarks