Form 9-330
(Rev. 5-63)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE* (See other instructions 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

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

2. NAME OF OPERATOR: Consolidated Oil & Gas Inc.

3. ADDRESS OF OPERATOR: P.O. Box 2038 Farmington New Mexico

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*
At surface 1850' from the North line 1450' from the east line of Section #11
At top prod. interval reported below
At total depth

5. LEASE DESIGNATION AND SERIAL NO.: 101

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Jicarilla Tribal

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Lowe

9. WELL NO.: 1-11

10. FIELD AND POOL, OR WILDCAT: Tapacito Pictured Cliff

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Section 11, Twn. 26 North, Range 4 West, NMPM

12. COUNTY OR PARISH: Rio Arriba

13. STATE: New Mex

14. PERMIT NO. | DATE ISSUED

RECEIVED
MAR 23 1964
OIL CON. COM.
DIST. 3

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (*Ready to prod.*)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
2/7/64	2/15/64	2/27/64	7102 KB, 7096	

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
3960 KB.	3917 KB.		→	0 to T.D.	

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*: 3822- 3876 Pictured Cliffs

25. WAS DIRECTIONAL SURVEY MADE: No

26. TYPE ELECTRIC AND OTHER LOGS RUN: Gamma ray- Neutron- Collar log.

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"	32.0	165	15"	110 sx reg. w/2% Ca Cl2 135 sx 50-50 pos mix w/4% gel, 40 sx reg. w/2% Ca Cl2	

29. LINER RECORD

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

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
1" Reg.	3822 KB.	

31. PERFORATION RECORD (*Interval, size and number*)
3822- 3838
3844- 3854 2/holes per foot
3866- 3876
total- 72 5/8" holes

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
3822- 3876	Sand water frac with 75,000 pounds of sand and 44,310 gallons of water.

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (*Flowing, gas lift, pumping—size and type of pump*)	WELL STATUS (*Producing or shut-in*)
		Shut In

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
3/10/64	3	3/4"					

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
	272			3,772		

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

TEST WITNESSED BY: Clyde Phillips

35. LIST OF ATTACHMENTS: Drilling and Completion History - Radioactive logs.

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

SIGNED Thomas M. Boyd TITLE Area Superintendent DATE 3/16/64

*(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 POROUS ZONES:
SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.

38. GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Pictured Cliffs	3808	

U.S. GOVERNMENT PRINTING OFFICE: 1963—O-683636

CORES

FORMATION TOPS: (Log

PRODUCING PERFS:

TREATMENT:

INITIAL POTENTIAL: 3772 MCFD

ILLEGIBLE

LOWE NO. 1-11

STATE. New

LOWE 1-11

WELL:

Drilled 41' of ... shale. Mud. 9.2. Vis. 30. Water ... Dev. 1/4° at ... Present operation, making trip for Bit 5. ... off at 5 a.m.

... of ... hole. Mud 9.2. Vis. ... Water loss ... cake 2/32. PH ...

... Picture ... 15.5# casing ... 3681.84', set at 36... 24' KB. ... 125 bbls. mud, 12.5 ... Cemented with ... 50-50 ... regular Class ... with 2% CaCl2. Full returns ... job, ... 5:30 a.m.

... completed ...

...

... per foot from 3822-3830', 3844'-3854', ... with 75,000# sand, ...# J100, ... pressure 1300#, average injection ... water. ... 2/26. Went in blowing down ... job complete ... with 1" tubing, blew ... well making 2" to 3" stream of water. ... depth over night. Present operation, ... cleaning up. Have 1950' ... tubing in hole.

... at 3822 KB. Still making quite a ... water. ... Gauged 1150 MCF through 1" ... MCF with 405# on casing this a.m.

WELL LOWE 1-11

2-27-64 Cont'd.

Frac details.

Top Perf	1760#	Initial Inj. rate	70 BPM
Initial treating pressure	1300#	Max. inj. rate	84.5 BPM
Max. treating pressure	1875#	Min. inj. rate	70 BPM
Min. treating pressure	1025#	Final inj. rate	73 BPM
Final treating pressure	1675#	Avg. inj. rate	79 BPM
Avg. treating pressure	1500#	Sand	75,000# 20-40 sand
Instantaneous pressure	900#	Total fluid	44,310 gal.
Final instantaneous pres.	350#	Treat. fluid	38,800 gal.
Hydraulic HP	2017#	Sand Conc.	2 lb./gal.
Bottom perf @ 1735		Additives	110 lb. J-100
		Balls	45

12:

Shut in @ 4 p.m. 2/28/64 for seven day test.

1:

1350 psi

2:

Shut in for test.

3:

Shut in for test.

OPEN FLOW TEST DATA

DATE March 10, 1964

Operator: Con[illegible] Oil & Gas, Inc.		Lease: Lowe No. 1-11	
Location: [illegible] FNL, [illegible], Sec. 11, T26N, R[illegible]		County: Rio Arriba	State: New Mexico
Formation: Pictured Cliffs		Pool: Tapacito	
Casing: Diameter 5-1/2"	Set At: Feet 3959	Tubing: Diameter 1"	Set At: Feet 3822
Pay Zone: From 3822	To 3876	Total Depth: 3950	
Stimulation Method: Sand Water Frac		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches: 0.75	Choke Constant: C 14.1605			
Shut-In Pressure, Casing, PSIG 1027	+ 12 = PSIA 1039	Days Shut-In 7	Shut-In Pressure, Tubing PSIG 1027	+ 12 = PSIA 1039
Flowing Pressure: P PSIG 260	+ 12 = PSIA 272		Working Pressure: P_w PSIG 260	+ 12 = PSIA 272
Temperature: T 42	n = 0.85		Fpv (From Tables) 1.039	Gravity 0.70 (est.)

CHOKE VOLUME = Q = C x P_t x F_t x F_g x F_{pv}

Q = 14.1605 x 272 x 1.0178 x .9258 x 1.039 = 3772 MCF/D

$$\text{OPEN FLOW} = \text{Aof} = Q\left(\frac{P_c^2}{P_c^2 - P_w^2}\right)^n$$

$$\text{Aof} = \left(\frac{1039^2}{1039^2 - 272^2}\right)^n = 1.074^{.85} = 1.065$$

Aof = 4017 MCF/D

TESTED BY: Johnny Walker

WITNESSED BY: Clyde Phillips

W. H. Williams, Chief Engineer