

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*

(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 _____		
b. TYPE OF COMPLETION:		NEW WELL ☒	WORK OVER ☐	DEEP-EN ☐	PLUG BACK ☐	DIFF. RESVR. ☐	Other _____
2. NAME OF OPERATOR						8. FARM OR LEASE NAME	
Consolidated Oil & Gas Inc.						Lone	
3. ADDRESS OF OPERATOR						9. WELL NO.	
P.O. Box 2035 Farmington New Mexico						1-11	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*						10. FIELD AND POOL, OR WILDCAT	
At surface 1850' from the North line 1450' from the east line of Section #11						Tapacito Pictured Cliffs	
At top prod. interval reported below						11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA	
At total depth						Section 11, Twn. 26 North, Range 4 West, N.M.	
14. PERMIT NO. DATE ISSUED						12. COUNTY OR PARISH	
MAR 23 1964						13. STATE	
15. DATE SPUDDED						19. ELEV. CASINGHEAD	
2/7/64						7102 KB.	
16. DATE T.D. REACHED						7096	
2/15/64						25. WAS DIRECTIONAL SURVEY MADE	
17. DATE COMPL. (Ready to produce)						No	
2/27/64						26. TYPE ELECTRIC AND OTHER LOGS RUN	
20. TOTAL DEPTH, MD & TVD						Gemma ray- Neutron- Collar log.	
21. PLUG, BACK T.D., MD & TVD						27. WAS WELL CORED	
22. IF MULTIPLE COMPLEMENTS, HOW MANY?						No	
23. INTERVALS DRILLED BY						28. CASING RECORD (Report all strings set in well)	
3960 KB.						29. LINER RECORD	
3917 KB.						30. TUBING RECORD	
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*						31. PERFORATION RECORD (Interval, size and number)	
3822- 3876 Pictured Cliffs						32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
26. TYPE ELECTRIC AND OTHER LOGS RUN						33.* PRODUCTION	
Gemma ray- Neutron- Collar log.						DATE FIRST PRODUCTION	
27. WAS WELL CORED						PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	
No						WELL STATUS (Producing or shut-in)	
28. CASING RECORD (Report all strings set in well)						DATE OF TEST	
29. LINER RECORD						HOURS TESTED	
30. TUBING RECORD						CHOKE SIZE	
31. PERFORATION RECORD (Interval, size and number)						PROD'N. FOR TEST PERIOD	
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.						OIL—BBL.	
33.* PRODUCTION						GAS—MCF.	
DATE FIRST PRODUCTION						WATER—BBL.	
PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)						OIL RATIO	
WELL STATUS (Producing or shut-in)						DATE OF TEST	
DATE OF TEST						HOURS TESTED	
HOURS TESTED						CHOKE SIZE	
CHOKE SIZE						PROD'N. FOR TEST PERIOD	
PROD'N. FOR TEST PERIOD						OIL—BBL.	
OIL—BBL.						GAS—MCF.	
GAS—MCF.						WATER—BBL.	
WATER—BBL.						OIL GRAVITY-API (CORR.)	
OIL GRAVITY-API (CORR.)						34. DISPOSITION OF GAS (If not used for fuel, vented, etc.)	
34. DISPOSITION OF GAS (If not used for fuel, vented, etc.)						TEST WITNESSED BY	
35. LIST OF ATTACHMENTS						Olyde Phillips	
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records						Drilling and Completion History - Radioactive logs.	
SIGNED						TITLE	
Thomas M. Boyd						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			38. GEOLOGIC MARKERS				
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TOP	TRUE VERT. DEPTH
				Pictured Cliffs	3808		

CORES & INTERVALS

FORMAT: N TOPS: (100)

PRODUCING PERFS:

TREATMENT:

INITIAL POTENTIAL:

NAME

DATE: 10/18/75 10:00 (144)

10/18/75
10:00
10:00 - 10:00

Good water flow with TS, 100% 5000 (144) 310

Flow rate one third 574" choke 3772 MCFD

ILLEGIBLE

LOWE NO. 1-11

105 ' INTEL. SEC. - 105N-10

• Common Causes of Crisis

STATE. Nov 1891

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... ..
... ..

operation, was built to serve as a test rig for pump engine. It is
the only one of its kind.

1. *Phragmites communis* Trin. (Mun. 4.3. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840. 841. 842. 843. 844. 845. 846. 84

WFS-1:

Run 3-11 Drilled 41' of sand and shale. Mud. 9.2. Vis. 10. Water temp. 68° F. Bar. 30.1. Temp. 174° at 322'. Present operation, making trip for Bit 5.
Shut down pump off at 3 a.m.

Section 14 of the Indian Act. Mon. 9.2. Vis. - Water loss
1/4. Am. Lake 2/32. PH 1.2.

[illegible]

THE UNIVERSITY OF CHICAGO

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Get Tool Joint on two per foot from 3822'-3838' - 3844'-3854',
 1950' of sand, treated with 75,000# sand, 110# J100,
 water. Average injection pressure 1300#, average injection
 rate 18 gpm. Job completed at 1:30 a.m. 2/26. Went in blowing down
 with 1" tubing, blew well down to 1300', well making 2" to 3" stream of
 water. Left tubing blowing at this depth over night. Present operation,
 1" tubing, well making good cleaning up. Have 1950' of tubing in hole.

Flowmeter - Reg. still OK. Set at 3822 KB. Still making quite a
little water. Gage on well OK. Gaged 1150 MCF through 1"
line. Gaged 1057 MCF thru 403' on casing this a.m.

WELL.

LOWE 1-11

2-27-64 Cont.

Fract. details.

Top. inj.	1750#	Initial Inj. rate	70 BPM
Initial treating pressure	1400#	Max. inj. rate	84.5 BPM
Max. treating pressure	1575#	Min. inj. rate	70 BPM
Final treating pressure	1025#	Final inj. rate	73 BPM
Final treating pressure	1575#	Avg. inj. rate	79 BPM
Avg. treating pressure	1300#	Sand	75,000# 20-40 sand
Initial sand in pressure	450#	Total fluid	44,310 gal.
Final sand in pres.	1350#	Treat. fluid	38,800 gal.
Pressure at 2	1517#	Sand Conc.	2 lb./gal.
Pressure at 11:35		Additives	110 lb. J-100
		Balls	45

2-28

Start at 4 p.m. 2/28/64 for seven day test.

2-29

100-900 psi

2-30

100-900 psi for test.

2-31

100-900 psi for test.

OPEN FLOW TEST DATA

DATE March 10, 1964

Company: <u>Continental Oil & Gas, Inc.</u>		Lease: <u>Low No. 1-11</u>	
County: <u>Rio Arriba</u>		State: <u>New Mexico</u>	
Section: <u>Sec. 11, T26N, R1W</u>		Well: <u>Tabacito</u>	
Formation: <u>Pliocene Cliffs</u>		Tubing Diameter: <u>1"</u>	
Casing Diameter: <u>2 1/2"</u>	Set At: Feet <u>3959</u>	Total Depth: <u>3950</u>	Set At: Feet <u>3822</u>
Pay Zone: From <u>3822</u>	To <u>3876</u>	Flow Through Casing: <u>X</u>	Flow Through Tubing: <u></u>
Stimulation Method: <u>Sand Water Frac</u>			

Choke Size: <u>0.7</u>		Choke Constant: C <u>14.1605</u>	
Shut-in Pressure, Casing: <u>1027</u>	PSIG <u>+12 = PSIA</u>	Days Shut-in: <u>7</u>	Shut-in Pressure, Tubing: <u>1027</u>
Flowing Pressure, Casing: <u>272</u>	PSIG <u>+12 = PSIA</u>	Flowing Pressure, Tubing: <u>272</u>	PSIG <u>+12 = PSIA</u>
Temperature, Casing: <u>12</u>	Temperature, Tubing: <u>12</u>	Flow (From Tables): <u>1.039</u>	Gravity: <u>0.70 (est.)</u>

$$\text{CHOKE VOLUME} = Q = C \times P_r \times F_r \times F_g \times F_{gv}$$

$$Q = 14.1605 \times 272 \times 1.0173 \times .9258 \times 1.039 = \underline{3772} \text{ MCF/D}$$

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

$$Q_{OF} = \left(\frac{1039^2}{1039^2 - 272^2} \right)^{.85} = 1.074^{.85} = 1.065$$

$$Q_{OF} = \underline{4017} \text{ MCF/D}$$

Checked by Johnny Walker

Witnessed by Clyde Phillips

W. H. Williams
W. H. Williams, Chief Engineer