

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 *

5. LEASE DESIGNATION AND SERIAL NO.

NM 031480

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

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 24, Farmington, New Mexico

U. S. GEOLOGICAL SURVEY
FARMINGTON, N. M.

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

At surface

990' PK 1 1350' FWL of Section 19, Township 25 North,

At top prod. interval reported below

Range 9 West, NMPM.

At total depth

14. PERMIT NO.

DATE ISSUED

OCT 23 1965

15. DATE SPUNDED

16. DATE T.D. REACHED

17. DATE COMPL. (Ready to prod.)

18. ELEVATIONS (DF, R&B, RT, GR, ETC.)*

19. ELEV. CASINGHEAD

9-11-65

11-24-65

11-30-65

6754 O.L.

6754

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

6522

6521

Single

O to TD.

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

6496-6508

Basin Dakota

26. TYPE ELECTRIC AND OTHER LOGS RUN

Induction Electriclog & Demilog

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	24 #	258	12 1/4	150 sx reg w/2% Ca Cl ₂	
4 1/2	9.50 & 11.6#	6524	7 7/8	250 sx 50-50 permix 4% gal.	

29.

LINER RECORD

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

30.

TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
1 1/2"	6477	open

31. PERFORATION RECORD (Interval, size and number)

6496-6508

2 holes per foot

32.

ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
6496-6508	Sand & Water free with 60,000# of sand & 73,500 gallons of water. 500 gallons of 1% HCL acid.

33.*

PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
DATE OF TEST		HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.
10-6-65		3 Hr	3/4	→			
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
598	362	→		4917			
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)							

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

Vented

TEST WITNESSED BY
Ralph [Signature]
CON. COM.
DIST. 3

35. LIST OF ATTACHMENTS

Drilling & Completion History and Induction Electriclog & Demilog

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

SIGNED

Clyde Phillips

TITLE

Production Foreman

DATE

10-22-65

*(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 elevations are 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.	NAME	MEAS. DEPTH	TRUE VERT. DEPTH
			See Attached Drilling & Completion History			

38. GEOLOGIC MARKERS

NAME	MEAS. DEPTH	TRUE VERT. DEPTH

DRILLING AND COMPLETION HISTORY

CONSOLIDATED OIL & GAS, INC.

LADD #1

San Juan County, New Mexico

October 14, 1965

LOCATION: 990' FNL, 1650' FWL
Section 19-T25N-R9W

ELEVATIONS: 6,765' KB
6,764' DF
6,754' GL

SPUD: September 11, 1965

DRILLING COMPLETED: September 24, 1965
WELL COMPLETED: September 29, 1965

TOTAL DEPTH: 6,722' (Driller (logger's TD 6,721')

CASING: Surface: 8-5/8" 24# casing set at 258' KB with
150 sx. of regular cement + 2% CaCl.
Production: 4-1/2" 11.6# and 9.5# casing set at
6,724' KB with 250 sx. of 50.00 Pozmix
+ 4% gel.

TUBING 1-1/2" EUE tubing set at 6,477' KB

LOGS: Log: Wells Induction Electrollog and
Densilog.

CORES & DRILL STEM TESTS: None

FORMATION TOPS: (Log)

Chiff House	8,117'
Point Lookout	4,363'
Gallup	8,423'
Greenhorn	6,746'
Grain fields	6,477'
Dakota	6,496'

PRODUCING PERFORATIONS: Dakota
6,496' - 6,728'

TREATMENT: Acidized with 500 gallons of 15% HCl
in 3 stages
Sand-water frac with 60,000# 20-40 sand
and 73,500 gallons of water

INITIAL POTENTIAL: Choke volume thru 3/4" choke: 4,917 MCF/D
Calculated Absolute Open Flow: 5,300 MCF/D

LADD #1
 LOCATION: 750' FNL & 1650' FWL, Section 19-25N-9W
 FIELD: Basin Dakota
 COUNTY: San Juan STATE: New Mexico
 ELEVATIONS: 6,754' GL
 OIL INTEREST: 25%
 OPERATOR: Consolidated Oil & Gas, Inc.

9/12/65

TD 168 Drilled 168 1 Day Spotted 12-1/2" surface hole at 4:00 p.m. 9/11/65 Drilling ahead

9/13/65

TD 1,350' Drilled 1,102 2 Days Ran 8 joints (268') of 8-5/8" 240 surface casing Set at 250' KB with 100 lbs. of regular cement + 2% CaCl₂ Plug down at 8:00 a.m. 9/13/65 Tested on cement and nipped up Tested 8-5/8" casing to 12000'--hold OK Now drilling ahead in 7-7/8" hole

9/14/65

TD 2,572' Drilled 1,229 2 Days Bit #3 Dev. 1,47' at 1:00 and 2,572'

9/15/65

TD 3,328' Drilled 1,746 sand and shale 4 Days Bit #4 Dev. 1,746' at 1:00 with water down to 4' at 1:20

9/16/65

TD 4,000' Drilled 2,272 sand and shale 4 Days Bit #5 Dev. 2,272' at 1:00 with water down to 4' at 1:20

9/17/65

TD 4,000' Drilled 2,272 sand and shale 4 Days Bit #5 Dev. 2,272' at 1:00 with water down to 4' at 1:20

9/18/65

Page 2

9/19/65

TD 4,835' Drilled 3,083 sand and shale 5 Days Bit #6 Dev. 3,083' at 1:00 Mudd. 100 lbs. Mudd. 100 lbs. Mudd. 100 lbs.

9/20/65

TD 5,219' Drilled 3,4 sand and shale 5 Days Bit #6 Dev. 3,400' at 1:00 Mudd. 100 lbs. Mudd. 100 lbs. Mudd. 100 lbs.

9/21/65

TD 6,040' Drilled 4,218 sand and shale 6 Days Bit #7 Dev. 4,218' at 1:00 Mudd. 100 lbs. Mudd. 100 lbs. Mudd. 100 lbs.

9/22/65

TD 6,754' Drilled 4,946 sand and shale 6 Days Bit #8 Dev. 4,946' at 1:00 Mudd. 100 lbs. Mudd. 100 lbs. Mudd. 100 lbs.

9/23/65

TD 7,500' Drilled 5,692 sand and shale 7 Days Bit #9 Dev. 5,692' at 1:00 Mudd. 100 lbs. Mudd. 100 lbs. Mudd. 100 lbs.

9/24/65

TD 8,250' Drilled 6,442 sand and shale 7 Days Bit #10 Dev. 6,442' at 1:00 Mudd. 100 lbs. Mudd. 100 lbs. Mudd. 100 lbs.

9/25/65

TD 9,000' Drilled 7,192 sand and shale 8 Days Bit #11 Dev. 7,192' at 1:00 Mudd. 100 lbs. Mudd. 100 lbs. Mudd. 100 lbs. Now conditioning hole to run logs from 6,442' to 9,000' rate of penetration 1.9 to 3.0 minutes per foot From 6,442' to 9,000' (TD) = drilling time picked up Top of section due to picked by drilling time at 6,442'

LADD #1

Page 3

9/25/65

TD 9,522' 14 Days Ran 4012 casing equipped with guide shoe and insert float collar Set at 6,524' KB (casing to 1000' measurement) Mines 200 barrels mud with 12 gallons Hydrastar and 12 gallons Bortline Pumped ahead of cement job Mixed and pumped to 15 barrels of GP 100 pre-flash Cemented with 250 gal. 50/50 Plumatic 40% gel Plug down at 4:30 a.m. Bumped plug with 1800 psi. Well pressure in well did not hold Bumped plug three times Pressured up to 1800 psi and held pressure on casing for 6 hours WOK

9/26/65

TD 9,522' 14 Days WOK

9/27/65

TD 9,522' 14 Days WOK All casing in place and cemented

9/28/65

TD 9,522' 14 Days Nipped up BOP Ran 11' 8" bit and drilled float collar and solid cement Pressure tested pipe to 1800 psi hold OK Spotted 50 gallons 15% regular acid Rigging up to perforate

9/29/65

TD 9,522' 14 Days Perforated casing in 1000' from wellhead with 6" NOFEC shot pipe set. Annulized with 60 gallons 15% HCl in stages with maximum pressure of 1000 psi. Struck with 6" bit at 10' 4" sand and 10' 4" shale. Averaging 10' per section. Relative to 40 barrels per section. Shut in Perforation 10' 4" sand and 10' 4" shale. 14500' 10' 4" sand and 10' 4" shale. Ran 11' 8" bit and drilled float collar and solid cement. Pressure tested pipe to 1800 psi. Spotted 50 gallons 15% regular acid. Rigging up to perforate.

9/30/65

TD 9,522' 14 Days Perforated casing in 1000' from wellhead with 6" NOFEC shot pipe set. Annulized with 60 gallons 15% HCl in stages with maximum pressure of 1000 psi. Struck with 6" bit at 10' 4" sand and 10' 4" shale. Averaging 10' per section. Relative to 40 barrels per section. Shut in Perforation 10' 4" sand and 10' 4" shale. 14500' 10' 4" sand and 10' 4" shale. Ran 11' 8" bit and drilled float collar and solid cement. Pressure tested pipe to 1800 psi. Spotted 50 gallons 15% regular acid. Rigging up to perforate.

10/1/65

TD 9,522' 14 Days

10/2/65

TD 9,522' 14 Days

10/3/65

TD 9,522' 14 Days

10/4/65

TD 9,522' 14 Days

10/5/65

TD 9,522' 14 Days

10/6/65

TD 9,522' 14 Days

10/7/65

TD 9,522' 14 Days

10/8/65

TD 9,522' 14 Days Perforated casing in 1000' from wellhead with 6" NOFEC shot pipe set. Annulized with 60 gallons 15% HCl in stages with maximum pressure of 1000 psi. Struck with 6" bit at 10' 4" sand and 10' 4" shale. Averaging 10' per section. Relative to 40 barrels per section. Shut in Perforation 10' 4" sand and 10' 4" shale. 14500' 10' 4" sand and 10' 4" shale. Ran 11' 8" bit and drilled float collar and solid cement. Pressure tested pipe to 1800 psi. Spotted 50 gallons 15% regular acid. Rigging up to perforate.

10/9/65

TD 9,522' 14 Days

10/10/65

TD 9,522' 14 Days

10/11/65

TD 9,522' 14 Days

10/12/65

TD 9,522' 14 Days

OPEN FLOW TEST DATA

DATE October 6, 1965

Operator Consolidated Oil & Gas Inc.		Lease Ladd # 1	
Location Sec 19, T25N, R21W, 990' SW & 1650' FWL		County San Juan	State New Mexico
Formation Basin Dakota		Pool Dakota	
Casing Diameter 4 1/2"	Set At Feet 6549	Tubing Diameter 1 1/2"	Set At Feet 6466
Pay Zone: From 6450	To 6908	Total Depth: 6522	
Stimulation Method Sand & Water Freq.		Flow Through Casing XX	Flow Through Tubing

Choke Size, inches 3/4	Choke Constant: C 14.1605			
Shut-in Pressure, Casing, PSIG 1970	- 12 = PSIA 1982	Days Shut-in 7	Shut-in Pressure, Tubing, PSIG 1936	- 12 = PSIA 1948
Flowing Pressure: P, PSIG 350	- 12 = PSIA 362		Working Pressure: P _w , PSIG 598	- 12 = PSIA 610
Temperature: T, °F 60	n = 75		F _{ov} (From Tables) 1.036	Gravity .70est

$$\text{CHOKE VOLUME} = Q = C \times P_r \times F_v \times F_g \times F_p$$

$$Q = 14.1605 \times 362 \times 1.000 \times .9258 \times 1.036 = \underline{4917} \text{ MCF D}$$

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

$$A_{of} = \left(\frac{3928324}{3556224} \right)^{75} = 1.1046^{75} = 1.0778$$

$$A_{of} = \underline{5,300} \text{ MCF D}$$

TESTED BY A.A. Proter

WITNESSED BY [Signature]

Clyde Phillips
Clyde Phillips