

DRILLING & COMPLETION HISTORY

CONSOLIDATED OIL & GAS, INC.

COLLINS NO. 1-31

San Juan County, New Mexico

April 12, 1962

Location:	1750' F/NL & 1190' F/WL Section 31-T29N-R10W, NMPM
Elevations:	5645' GL (corrected) 5657' KB - all measurements from KB
Spud:	March 17, 1962
Drilling Completed:	March 19, 1962
Well Completed:	March 29, 1962
Total Depth:	1960' Drilled 1921' Plug Back
Casing:	
Surface:	7 5/8" 26.40# J-55 cemented at 110' with 35 sx. regular 2% CaCl ₂ cement.
Production:	4 1/2" 16.6# drill pipe set at 1949' with 150 sx. regular 4% gel cement.
Tubing:	1" regular set at 1833'
Logs:	Lane Wells Gamma Ray Neutron
Cores & Drillstem Tests:	None
Formation Tops: Log	Pictured Cliffs 1851' (+3806)
Producing Perforations:	1838' - 1914'
Treatment:	Sand water frac with 100,000# 20-40 sand and 100,000 gal. water.
Initial Potential:	Flow volume thru 3/4" choke: 2500 MCFD Calculated Absolute Open Flow Potential: 2710 MCFD

WELL: COLLINS NO. 1-31
1750' F/NL, 1190' F/WL, Sec. 31-T29N-R10W
FIELD: Fulcher Kutz (P.C.), Farmington Undesignated
COUNTY: San Juan STATE: New Mexico
ELEVATIONS: 5645' GL
5657' KB

3/16/62

Will move on rotary rig today.

3/17/62

Spudded well at 2:30 a.m. 3/17/62. Drilled 120' of 9 7/8" hole, running surface casing.

3/18/62

Ran 3 joints of 7 5/8" surface casing set at 110' KB. Cemented with 35 sx. regular 2% CaCl₂. Plug down 7 a.m. 3/17. Good returns. Drilling at 1240'. Drilled 1120' of sand and shale. Bit No. 3 in hole. Drilling with water. Dev. 1/2° at 500', 3/4° at 925'.

3/19/62

Rotary TD 1950'. Ran 71 joints 4 1/2" 16.6# drillpipe for casing for total pipe of 1955', set at 1949' KB. Float collar at 1920', one centralizer on shoe joint, one at 1755'. Cemented with 150 sx. of regular 4% gal. Plug down 2 a.m. 3/19. Bumped plug with 800 lbs. Shut well in.

3/20/62

Will complete this week.

3/21/62

Ran Gamma Ray Neutron log.

3/22/62

Will complete tomorrow.

3/23/62

Will perforate and frac today.

3/24/62

Rigged up Dowell pump truck at 6:30 a.m. 3/23/62, pressured up on casing

WELL:

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3/24/62 Cont'd.

2300#, pressure held. 9:30 a.m. 3/23/62 rigged up lane Wells perforated two per foot super dyna jets 1838'-1914'. 12:30 p.m. 3/23/62 rigged up Dowell (3) allisons.

Breakdown pressure	3000#
Maximum treating pressure	2600#
Maximum pressure	3000#
Minimum pressure	1800#
Over treating pressure	2100#
Instant shut-in pressure	700#
Ten minute shut-in pressure	600#
Breakdown and fill	16 bbls.
Treatment fluid	2368 bbls.
Over flush	14 bbls.
Disp.	27 bbls.
Lbs. of sand	100,000 lbs. 20-40
Number of balls	55
2 1/2# per 1,000 gals. water J-100 gel.	
Injection rate	39 BPM

Well shut-in, will complete with rig from Walz.

3/25/62

Will complete when tubing is run on Walz.

3/26/62

Will complete today.

3/27/62

Rigged up completion rig strung into top of sand. Had 58' of sand in hole. Attempted to swab. Swab went to 75' could not get below this point. Rigged up with gas, started blowing hole down at 8 p.m. Present operation, blowing hole at 1834', 4' above perforations. Well making a lot of sand and water, well will unload by itself. Heading real bad.

3/28/62

Blowing hole to top of perforations, making water and sand. Blew well for 12 hours, after blowing to bottom pulled tubing, well logged off. Went back in hole with tubing, found sand 30' above perforations.

3/29/62

Blowing well, producing at rate of 2740 MCFD with heavy spray of water. Blew well till 11 a.m., pulled and laid down 2" tubing, ran 87 joints (1827') of 1" regular tubing set a 1833 KB. Released rig at 3 p.m. At 4 p.m. well flowing 1800 MCFD, very wet.

WELL:

COLLINS NO. 1-31

3/30/62

Shut well in for 7-day test at 4 p.m. 3/29/62. Making estimated 3000 MCFD.

3/31/62

Shut-in for 7 day test.

4/1/62

Shut-in for 7 day test.

4/2/62

Shut-in for 7 day test.

4/3/62

Will test today.

Operator Consolidated Oil & Gas, Inc.		Lease Collins 1-31	
Location R10W 1750' F/NL, 1190' F/WL, Sec. 31-T29N		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Fulcher Kutz	
Casing: Diameter 4 1/2"	Set At: Feet 1949	Tubing: Diameter 1"	Set At: Feet 1833'
Pay Zone: From 1838'	To 1914	Total Depth:	
Stimulation Method Sand water frac		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches 0.750		Choke Constant: C 14.1605			
Shut-In Pressure, Casing, PSIG 577	+ 12 = PSIA 589	Days Shut-In 7	Shut-In Pressure, Tubing PSIG 577	+ 12 = PSIA 589	
Flowing Pressure: P PSIG 171	+ 12 = PSIA 183		Working Pressure: Pw PSIG 171	+ 12 = PSIA 183	
Temperature: T °F 42	n = .75		Fpv (From Tables) 1.025	Gravity .70	

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

Q = 14.1605 x 183 x 1.0178 x .9258 x 1.025 = 2500 MCF/D

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

Aof = $\left(\frac{333,000}{299,400} \right)^n =$

Aof = 2710 MCF/D

TESTED BY Clyde Phillips

WITNESSED BY _____

