DRILLING & COMPLETION HISTORY Consolidated Oil & Gas, Inc. Lowe No. 3-26 Rio Arriba County, New Mexico

March 16, 1964

LOCATION:

990' FNL, 990' FEL, Section 26

T26N-R4W, N.M.P.M.

ELEVATIONS:

6929' GL

6934' KB

SPUD:

January 24, 1964

DRILLING COMPLETED: WELL COMPLETED:

January 29, 1964 March 4, 1964

TOTAL DEPTH:

3703' Drilled 3667' PBTD

CASING - Surface

8 5/8" 32# set at 165 KB, cemented

with 100 sx. regular, 2% CaCl₂

Production

5 1/2" 15.5# casing set at 3703' KB

with 135 sx. 50/50 Pozmix, 4% gel,

followed by 40 sx. regular

TUBING:

l" regular set at 3519' KB

LOGS:

Jet Tech Services Radioactivity

CORES & DRILLSTEM TESTS:

None

FORMATION TOPS: (Log)

Pictured Cliffs

3502' (+3432')

PRODUCING PERFORATIONS:

3540' - 3554'

3560' - 3576'

3606' - 3611'

TREATMENT:

Sand water frac with 75,000# sand and

57,960 gal. water.

INITIAL POTENTIAL:

Flow volume thru 3/4" choke: 6429 MCFD

Calculated Absolute Open Flow Potential;

8190 MCFD

WELL:

LOWE NO. 3-26

990' FNL, 990' FEL, Sec. 26-T26N-R4W

FIELD:

Tapicito Pictured Cliffs

COUNTY:

Rio Arriba STATE: New Mexico

ELEVATIONS:

6929' GL

69341

___кв

1/24/64

Have rat hole and mouse hold drilled, in preparation to spud surface hole.

1/25/64

Spudded in at 9 a.m. Drilled 175' 12 1/4" surface hole. Ran six joints 8 5/8" 32# casing set at 165' KB. Cemented with 100 sx. regular with 2% CaCl₂. Present operation, drilling with Bit 1 at 712'. Dev. 1/4° at 130', 1/2° at 515'.

1/26/64

Depth 2312'. Drilled 1600' sand and shale. Present operation, drilling with Bit 2. Mud 8.4. Vis. 32. Dev. 1/2° at 1050', 3/4° at 1750'.

1/27/64

Depth 2920'. Drilling with Bit 4. Mud 9.0. Vis. 40. Water loss 10.

1/28/64

Depth 3504'. Drilled 584' of sand and shale. Present operation, drilling with Bit 5. Mud 9. Vis. 43. Water loss 10. Dev. 3/4° at 3360'.

1/29/64

TD 3700'. Drilled 196' of sand and shale. Mud 9.1. Vis. 68. Water loss 10. Laid down drill pipe. Present operation, running 5 1/2" 15.5# casing, 35 joints off bottom.

1/30/64

Ran 118 joints 5 1/2" 15.5# casing set at 3703' KB, float collar at 3671' KB. Cemented with 135 sx. 50/50 Pozmix 4% gel. Tailed in with 40 sx. regular. Pretreated 125 bbls. mud with 12.5 gal. Bacteriacide and 7 gal. Hydrazine. Good returns on cement job. Plug down 10:15 a.m. 1/29.

2-25-64

Ran Gamma Ray Neutron logs.

2/27/64

Rigged up Jet Tech, perforat ed two per foot 3540'-3554', 3560'-3576', 3606'-3611'. Waiting on completion rig.

2/29/64

Hooked up Dowell. Well broke at 2800#. Waiting on completion rig.

3/2/64

Moved in completion rig. Nippled up. Shut down at dark, this a.m. preparing to frac.

3/3/64

Hooked up Western Company, perforated 3540'-3554', 3560'3576', 3606'-3611', treated with 75,000# sand. Average treating pressure 1200#, average injection rate 68 BPM, 55 balls in three stages. Job complete at 10:40 a.m. 3/2/64. Started blowing down, blew down to 1700'. Well unloaded, ran tubing to 3300', left blowing over night. Gauged 1200 MCFD this a.m. Preparing to land tubing.

Five pumps	1100#	Ini tial injection rate	70 BPM	
Initial treating pressure	1000#	Max. injection rate	75 BPM	
Max. treating pressure	1700#	Min. injection rate	60 BPM	
~ <u>-</u>	950#	Final injection rate	75 BPM	
	1500#	Avg. injection rate	68 BPM	
- -	1200#	Sand	75,000# 20-40	
5 5-	400#	Additives	450# J-2	
	250#	Balls	55 in 3 stages	
——————————————————————————————————————	2000	Total fluid	57,960 gal.	
,		Avg. sand density	1.5 lb/gal.	
Min. treating pressure Final treating pressure Avg. treating pressure Instant shut in pres. Ten min. shut in pres. Hydraulic HP Job complete 10:40 a.m.	1500# 1200# 400# 250#	Avg. injection rate Sand Additives Balls Total fluid	68 BPM 75,000# 20-40 450# J-2 55 in 3 stages 57,960 gal.	

3/4/64

Ran 106 joints of l" regular tubing (3511.86') set at 3518.86' KB. Gauged well 1200 MCFD, 610 casing pressure. Shut in for test.

OPEN FLOW TEST DATA

DATE March 11, 1964

Operator		Lease		
Consolidated Oil & Gas, Inc.		Lowe No. 3-26		
Location	011 & 000, 1	County	Stote New Mexico	
	J, Sec. 26, T26N, R4W	Rio Arriba		
Formation Pictured		Pool Tapacito		
Cosing: Diameter 5-1/2	Set At: Feet	Tubing: Diameter	Set At: Feet 3519	
Pay Zone: From 3540	3611	Total Depth: 3705		
Stimulation Method		Flow Through Casing	Flow Through Tubing	
Sand Water Frac				

Choke Size, Inches		Choke Constant: C 14. 1605						
Shut-in Pressure, Cas		PSIG	+ 12 = PSIA 904	Days Shut-In	Shut-In Pressure, Tubing	PSIG 2	+ 12 = PSIA	904
Flowing Pressure: P	440	PSIG	+ 12 = PSIA	452	Working Pressure: Pw 440	PSIG	+ 12 = PSIA	452
Temperature: T	4 2	•F	n = 0.	85	Fev (From Tables)	6	Grevity 0.70	(est.)

OPEN FLOW = Aof = Q
$$\begin{pmatrix} 2 \\ P_c \\ P_c - P_w \end{pmatrix}$$

Aof =
$$\left(\frac{904^2}{904^2 - 452^2}\right)^n = 1.33^{.85} = 1.274$$

TESTED BY _____ Johnny Walker

WITNESSED BY ____ Clyde Phillips

W. H. Williams, Chief Engineer