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Form C-105
Revised 1-1-65

HOBBS OFFICE O. C. C.

NEW MEXICO OIL CONSERVATION COMMISSION

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

FEB 29 3 53 PM 67

5a. Indicate Type of Lease: State [ ] Fee [ ]

5. State Oil & Gas Lease No.: OG-1529

Administrative Order No. SWD-63, 11-8-66

1a. TYPE OF WELL: OIL WELL [ ] GAS WELL [ ] DRY [ ] OTHER SWD

b. TYPE OF COMPLETION: NEW WELL [X] WORK OVER [ ] DEEPEN [ ] PLUG BACK [X] DIFF. RESVR. [ ] OTHER

7. Unit Agreement Name: North Antelope Ridge

8. Farm or Lease Name: North Antelope Ridge Unit

2. Name of Operator: Shell Oil Company (Western Division)

9. Well No.: 1

3. Address of Operator: P. O. Box 1509, Midland, Texas 79701

10. Field and Pool, or Wildcat: Wildcat

4. Location of Well: UNIT LETTER G LOCATED 1980 FEET FROM THE north LINE AND 1980 FEET FROM THE east LINE OF SEC. 22 TWP. 23S RGE. 34E NMPM

12. County: Lea

15. Date Spudded	16. Date T.D. Reached	17. Date Compl. (Ready to Prod.)	18. Elevations (DF, RKB, RT, GR, etc.)	19. Elev. Cashinghead
3-28-66	7-29-66	2-8-67	3425' DF	-

20. Total Depth	21. Plug Back T.D.	22. If Multiple Compl., How Many	23. Intervals Drilled By	Rotary Tools	Cable Tools
14,761'	6543'	-	→	0 - 14,761'	-

24. Producing Interval(s), of this completion — Top, Bottom, Name: -

25. Was Directional Survey Made: yes

26. Type Electric and Other Logs Run: BHC-Sonic-GR/N, MLL, LL, Proximity-ML

27. Was Well Cored: no

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
20"	94#	360'	26"	650 sx	-
13 3/8"	72#, 68#, 61#	5004'	17 1/2"	1950 sx	-
9 5/8"	53.5#	11792'	12 1/4"	1000 sx	9318'

29. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN
7"	11,506'	14,134'	560	2628'

30. TUBING RECORD

SIZE	DEPTH SET	PACKER SET
3 1/2"	4966'	4966'

31. Perforation Record (Interval, size and number)

12,002', 12,004', 12,017', 12,063',
12,076', 12,087', 12,089', 12,091',
12,121', 12,128', 12,131', 12,133',
12,134', 12,135', 12,136'

1/ft. 1 11/16"

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

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
12,002' - 12,136'	6000 gallons 15% NEA
12,121' - 12,136'	3000 gallons 15% NEA

33. PRODUCTION

Date First Production	Production Method (Flowing, gas lift, pumping — Size and type pump)	Well Status (Prod. or Shut-in)
		SWD

Date of Test	Hours Tested	Choke Size	Prod'n. For Test Period →	Oil — Bbl.	Gas — MCF	Water — Bbl.	Gas — Oil Ratio

Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate →	Oil — Bbl.	Gas — MCF	Water — Bbl.	Oil Gravity — API (Corr.)
		-				

34. Disposition of Gas (Sold, used for fuel, vented, etc.)

Test Witnessed By

35. List of Attachments

36. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.

SIGNED Original Signed By J. D. DUREN J. D. Duren TITLE Staff Petrophysical Engineer DATE February 24, 1967

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Commission not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 30 through 34 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico				Northwestern New Mexico			
T. Anhy		T. Canyon		T. Ojo Alamo		T. Penn. "B"	
T. Salt		T. Strawn		T. Kirtland-Fruitland		T. Penn. "C"	
B. Salt		T. Atoka	11,949'	T. Pictured Cliffs		T. Penn. "D"	
T. Yates		T. Miss	13,984'	T. Cliff House		T. Leadville	
T. 7 Rivers		T. Devonian	14,681'	T. Menefee		T. Madison	
T. Queen		T. Silurian		T. Point Lookout		T. Elbert	
T. Grayburg		T. Montoya		T. Mancos		T. McCracken	
T. San Andres		T. Simpson		T. Gallup		T. Ignacio Qtzte	
T. Glorieta		T. McKee		Base Greenhorn		T. Granite	
T. Paddock		T. Ellenburger		T. Dakota		T.	
T. Blinebry		T. Gr. Wash		T. Morrison		T.	
T. Tubb		T. Granite		T. Todilto		T.	
T. Drinkard		T. Delaware Sand		T. Entrada		T.	
T. Abo		T. Bone Springs	8537'	T. Wingate		T.	
T. Wolfcamp	11,350'	T.	Delaware Mountain 5018	T. Chinle		T.	
T. Penn.	11,688'	T.	Des Moines 11,745'	T. Permian		T.	
T Cisco (Bough C)		T.	Woodford 14,452'	T. Penn. "A"		T.	

Morrow Clastics 12,830' Mississippian Limestone 14,092'

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
0	1004	1004	Red Beds				
1004	3150	2146	Anhydrite & Salt				
3150	4100	950	Limestone & Gypsum				
4100	4430	330	Siltstone & Limestone				
4430	5044	614	Limestone, Siltstone, Gypsum				
5044	8600	3556	Limestone, Siltstone, Shale				
8600	9600	1000	Limestone, Shale, Chert				
9600	10090	490	Limestone, Siltstone, Shale & Chert				
10090	11000	910	Limestone, Shale, Chert				
11000	11700	700	Limestone & Shale				
11700	12860	1160	Limestone, Shale, Chert				
12860	13690	830	Limestone, Shale, Siltstone				
13690	13970	280	Shale				
13970	14100	130	Limestone & Shale				
14100	14470	370	Limestone, Shale & Chert				
14470	14670	200	Shale				
14670	14761	91	Limestone & Dolomite				

Attachment for NMOCC Form C-105
February 24, 1967

Shell Oil Company
North Antelope Ridge Unit #1
Unit G, Sec. 22, T-23-S, R-34-E,
NMPM Survey, Lea County, New Mexico

DST #1: 11,895' - 11,992' (97' Atoka). Tool open 111 minutes (including 16 minutes preflow). Tool open w/no blow. Shut in for ISIP. Re-opened w/no blow & continued no blow throughout. Nitrogen Valve did not open (DP pressured to 1800 psi at surface w/2000# Nitrogen Valve at 10,190'). Recovered 40' drilling mud. Recovered mud titrated 7500 ppm Cl^-. Pit mud 3100 ppm Cl^-. 95 minutes ISIBHP 3303 psi. FBHP 2262 - 2262 psi. 95 minutes FSIBHP 2708 psi. HMP 7670 - 7670 psi. BHT 208°F. Conclusive Test. (Cook)

DST #2: 11,990' - 12,150' (160' Atoka). Used 200' Nitrogen. Pressured to 1800 psi at surface. 1800 psi Nitrogen Valve at 10,000'. Tool open 4 hours 17 minutes (including 2 minutes preflow) thru 5/8" BC, 1" TC, 4 1/2" DP. Opened w/strong blow & re-opened w/fair blow. GTS 19 minutes.

Time (CST)	Surface Pressure	Choke	Rate (MMCFPD)
6:04	100 psi	1"	3.0
6:25	75 psi	1"	2.3
7:00	55 psi	1"	1.8
8:05	25 psi	1"	1.0
8:30	Turned thru separator		
9:20	-	1/2"	0.375
9:55	-	1/2"	0.375

Recovered 5 gallons gas & condensate cut drilling mud above Nitrogen valve + 600' gas & condensate cut drilling mud above shut in tool. Pit mud titrated 2600 ppm Cl^-. Recovered mud titrated 2000 - 2250 ppm Cl^-. 163 minutes ISIBHP 9340 psi. FBHP 2234 - 2182 psi. 240 minutes FSIBHP 8957 psi. HMP 9395 - 9395 psi. Conclusive Test. (Cook)

DST #3: 12,815' - 12,965' (150' Morrow). Used 2418' Water Blanket + 1583' Nitrogen Blanket. Nitrogen valve at 8835' set at 2050 psi. Nitrogen pressured to 1750 psi at surface. Tool open 97 minutes (including 5 minutes preflow) thru 5/8" BC & 4 1/2" DP. Opened w/no blow & continued throughout. NGTS. Recovered 1583' Nitrogen Blanket + 2418' water blanket (last 90' contaminated w/drilling fluid), no show. 67 minutes ISIBHP 6443 psi. FBHP 3303 - 3303 psi. 65 minutes FSIBHP 6413 psi. HMP 9135 - 9135 psi. Conclusive Test. (Cook)

DST #4: 13,010' - 13,270' (260' Morrow). Used 2000' water blanket + 2000' Nitrogen pressured to 2000 psi at surface. Tool open 131 minutes thru 5/8" BC, 1" & 3/8" TC, 4 1/2" DP. Opened w/no blow. Had strong blow 4 minutes after re-opened & continued throughout. GTS 105 minutes. Flowed gas, max rate 1 MMCFPD on 1" choke at 25 psi surface pressure; min rate 825 MMCFPD on 1" choke at 18 psi surface pressure. Recovered 1209' water blanket above nitrogen valve. Found 1775' below nitrogen valve. Recovered 465' water blanket + 330' gas & mud cut water blanket + 200' gas cut drilling mud. 60 minutes ISIBHP 8298 psi. FBHP 3481 - 2797 psi. 45 minutes FSIBHP 8627 psi. HMP 9925 - 9925 psi. Conclusive Test. (Cook)

DST #5: 13,544' - 13,762' (218' Lower Morrow). Used 3500' FWB + 2000' Nitrogen pressured to 1950 psi at surface. Nitrogen valve set at 8012' set at 2050 psi. Tool open 4 hours 15 minutes (including 5 minutes pre-flow) thru 5/8" BC, 1" & 3/8" TC, 4 1/2" DP. Opened w/no blow. Strong blow in 4 minutes. Re-opened w/weak blow, increased to strong in 3 minutes & continued throughout. GTS 3 hours 20 minutes. Flowed gas at various rates on 3/8" choke. Maximum 180,000 CFPD at 42 psi FSP. Minimum 140,000 CFPD at 30 psi FSP. Found 1725 psi below Nitrogen valve. Recovered 930' gas below Nitrogen Valve & reversed out 100' condensate (Gr. 56.2° API) + 3500' FWB + 970' GCDM. 60 minutes ISIBHP 9419 psi. FBHP 4095 - 4155 psi. 120 minutes FSIBHP 6365 psi. HMP 10,078 - 10,078 psi. Conclusive Test. (Cook)

DST #6: 14,685' - 14,761' (76' Silurian). Tool opened 128 minutes (including 8 minutes pre-flow) thru 5/8" BC, 1" TC, 3 1/2" & 4 1/2" DP. Opened w/no blow, strong blow in 5 minutes. Re-opened w/no blow, weak blow in 2 minutes, strong blow in 5 minutes & continued throughout test. NGTS. Recovered 90' (1 bbl.) mud cut black salt water + 1710' (17 bbls.) black salt water. 62 minutes ISIBHP 6233 psi. FBHP 2351 - 3065 psi. 120 minutes FSIBHP 6233 psi. HMP 7311 - 7311 psi. BHT 216°F. Pit mud titrated 130,000 ppm Cl⁻. Recovered water titrated 42,000 ppm Cl⁻. Conclusive Test. (Cook)