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Form C-105
Revised 11-1-58

NEW MEXICO OIL CONSERVATION COMMISSION
WELL COMPLETION OR RECOMPLETION REPORT AND LOG

RECEIVED
MAR 2 1981

5a. Indicate Type of Lease: State ☐ Fee ☒
5b. State Oil & Gas Lease No.:

1a. TYPE OF WELL: OIL WELL ☒ GAS WELL ☒ DRY ☐ OTHER
b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ OTHER

7. Unit Agreement Name:
8. Farm or Lease Name: Newlin
9. Well No.: 1
10. Field and Pool, or Wildcat: Wildcat

2. Name of Operator: Harper Oil Company
3. Address of Operator: 904 Hightower Building, Oklahoma City, Oklahoma 73102
4. Location of Well: UNIT LETTER K LOCATED 1980 FEET FROM THE West LINE AND 1980 FEET FROM THE South LINE OF SEC. 24 TWP. 6S RGE. 29E NMPM
12. County: Chaves

15. Date Spudded	16. Date T.D. Reached	17. Date Compl. (Ready to Prod.)	18. Elevations (DF, RKB, RT, GR, etc.)	19. Elev. Cashinghead
9-6-80	10-17-80	2-27-81	4162.5 GL, 4174.5 KB	4162.5

20. Total Depth	21. Plug Back T.D.	22. If Multiple Compl., How Many	23. Intervals Drilled By	Rotary Tools	Cable Tools
8325'	7525'		→	8325'	No

24. Producing Interval(s), of this completion — Top, Bottom, Name: Strawn ~~Sand~~ - 7403'-7412' w/10 holes
25. Was Directional Survey Made: Yes
26. Type Electric and Other Logs Run: Dual Laterolog Micro-SFL
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
13 3/8"	48#	336'	17½"	375 sks Class C	None
8 5/8"	24#	2037'	12¼"	700 sks Lite, 550 sks	
				Class C	None
5 1/2"	17# & 15½#	8323'	7 7/8"	550 sks poz	None

29. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN
None				

30. TUBING RECORD

SIZE	DEPTH SET	PACKER SET
2 3/8"	7476.52'	7265.15'

31. Perforation Record (Interval, size and number)

7782'-7819', 0.38", 14 holes - Squeezed w/ 150 sks cement, held okay.
7577'-7621', 0.38", 16 holes - Squeezed w/ 150 sks cement, held okay.
7403'-7412', 0.38", 10 holes

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

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
7782'-7819'	150 sks Class H
7577'-7621'	150 sks Class H
7403'-7412'	1995 gals. 15% MCA acid

33. PRODUCTION

Date First Production	Production Method (Flowing, gas lift, pumping - Size and type pump)	Well Status (Prod. or Shut-in)
2-7-81	Flowing	Shut In

Date of Test	Hours Tested	Choke Size	Prod'n. For Test Period →	Oil - Bbl.	Gas - MCF	Water - Bbl.	Gas - Oil Ratio
2-14-81	24	11/64"		9	300	15	33,333

Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate →	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API (Corr.)
900#	packer		9	300	15	46.8

34. Disposition of Gas (Sold, used for fuel, vented, etc.): Vented during test.
Test Witnessed By: Mr. Herring

35. List of Attachments: Open hole logs, deviation test, DST #1, #2

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 [signature] TITLE Prod. Mgr. DATE 3-11-81

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	7400'	T. Kirtland-Fruitland		T. Penn. "C"	
B. Salt		T. Atoka		T. Pictured Cliffs		T. Penn. "D"	
T. Yates		T. Miss	7558'	T. Cliff House		T. Leadville	
T. 7 Rivers		T. Devonian		T. Menefee		T. Madison	
T. Queen		T. Silurian	7980'	T. Point Lookout		T. Elbert	
T. Grayburg		T. Montoya		T. Mancos		T. McCracken	
T. San Andres	2270'	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	8200'	T. Morrison		T.	
T. Tubb		T. Granite	8225'	T. Todilto		T.	
T. Drinkard		T. Delaware Sand		T. Entrada		T.	
T. Abo	4890'	T. Bone Springs		T. Wingate		T.	
T. Wolfcamp		T.		T. Chinle		T.	
T. Penn.		T.		T. Permian		T.	
T. Cisco (Bough C)	6935'	T.		T. Penn. "A"		T.	

OIL OR GAS SANDS OR ZONES

No. 1, from 7400' to 7499' No. 4, from ..... to .....

No. 2, from ..... to ..... No. 5, from ..... to .....

No. 3, from ..... to ..... No. 6, from ..... to .....

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from ..... to ..... feet. .....

No. 2, from ..... to ..... feet. .....

No. 3, from ..... to ..... feet. .....

No. 4, from ..... to ..... feet. .....

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
0	2270	2270	Surface				
2270	4890		San Andres				
4890	6935		Abo				
6935	7400		Cisco				
7400	7558		Strawn				
7558	7980		Miss				
7980	8200		Silurian				
8200	8225		Gr. Wash				
8225	8325		Granite				
	T.D.						

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
ARTESIA DISTRICT OFFICE

BRUCE KING
GOVERNOR

LARRY KEHOE
SECRETARY

P.O. DRAWER DD
ARTESIA, NEW MEXICO 88210
(505) 748-1283

April 7, 1981

Harper Oil Company
904 Hightower Building
Oklahoma City, Oklahoma 73102

Re: Newlin
#1-K-24-6-29
Chaves County, NM

Gentlemen:

In regards to your recently submitted C-105, there are certain ambiguities. The top your staff considers to be Abo is equivalent to the Tubb cycle. The Abo begins at 5690 feet. Also, on the formation record, there was no Wolfcamp formation reported. According to existing correlations, there is a Wolfcamp section from 6549 feet to 6903 feet.

The interval perforated in said well is considered Strawn by your staff, but in this particular area, Lower Pennsylvanian units are nondistinguishable. Respectfully, they are divided into the Penn. Carbonate (Cisco) and Penn. Clastics. In this well, the Penn. Clastics section is 7220 feet to 7557 feet, with the Cisco section at 6903 feet to 7220 feet.

If you have any questions, please feel free to contact me.

Sincerely,

Larry Brooks

Larry Brooks
Geologist

LB:ar

FLUID SAMPLE DATA

Sampler Pressure 155 P.S.I.G. at Surface
Recovery: Cu. Ft. Gas 0
cc. Oil
cc. Water 1600
cc. Mud
Tot. Liquid cc. 1600
Gravity ° API @ °F.
Gas/Oil Ratio cu. ft./bbl.

		RESISTIVITY		CHLORIDE CONTENT
Recovery Water	@	°F.		ppm
Recovery Mud	@	°F.		ppm
Recovery Mud Filtrate	@	°F.		ppm
Mud Pit Sample	@	°F.		ppm
Mud Pit Sample Filtrate	@	°F.		ppm

Mud Weight 9.8 vis 75 sec.

Date 10-14 80 Ticket Number 880200
Kind of D.S.T. OPEN HOLE Halliburton Location ARTESIA
Tester MR. RITTER Witness MR. HANSON
Drilling Contractor WARTON DRILLING COMPANY #8 bc

EQUIPMENT & HOLE DATA

Formation Tested Fusselman
Elevation Ft.
Net Productive Interval 5' Ft.
All Depths Measured From Kelly Bushing 12' AGL
Total Depth 8042' Ft.
Main Hole/Casing Size 7 7/8"
Drill Collar Length 582' I.D. 2.25"
Drill Pipe Length 7414' I.D. 2.764"
Packer Depth(s) 7995' - 8003' Ft.
Depth Tester Valve 7978' Ft.
Cushion TYPE AMOUNT Depth Back Pres. Valve Ft.
Surface Choke Floor Manifold Bottom Choke .75"

Recovered 180 Feet of Drilling fluid
Recovered 3848 Feet of Mud cut salt water
Recovered Feet of
Recovered Feet of
Recovered Feet of

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Remarks No gas to surface SEE PRODUCTION TEST DATA SHEET.

TEMPERATURE	Gauge No. 1639 Depth: 7983' Ft.	Gauge No. 1638 Depth: 8038' Ft.	Gauge No. Depth: Ft.	TIME (00:00-24:00 hrs.)
	24 Hour Clock	24 Hour Clock	Hour Clock	Tool Opened 1445
Est. °F.	Blanked Off NO	Blanked Off Yes	Blanked Off	Opened Bypass 2030
Actual 147 °F.	Pressures	Pressures	Pressures	

		Field	Office	Field	Office	Field	Office	Reported Minutes	Computed Minutes
Initial Hydrostatic		4182	4159.9	4180	4186.4				
First Period	Flow Initial	154	46.2	218	95.8				
	Flow Final	1079	1021.9	1089	1164.1			30	30
	Closed in	2615	2630.7	2606	2662.2			60	59
Second Period	Flow Initial	1079	1054.8	1089	1060.4				
	Flow Final	1978	1986.8	1953	2015.2			60	61
	Closed in	2374	2378.0	2388	2403.0			195	195
Third Period	Flow Initial								
	Flow Final								
	Closed in								
Final Hydrostatic		4182	4148.8	4180	4175.4				

Legal Location Sec. - Twp. - Rng. 24 - 6S - 29E
Lease Name NEWLIN Well No. 1 Test No. 4
Tested Interval 8003' - 8042'
Field Area WILDCAT
Meas. From Tester Valve
County CHAVES
State NEW MEXICO
Lease Owner/Company Name HARPER OIL COMPANY

FORM 161-82 – PRINTED IN U.S.A.

FORMATION TEST DATA

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LITTLE'S 11033 75C 2/80

880200

Casing perfs____ Botton. ..oke____ Surf. temp____ ____°F Ticket No.____

Gas gravity____ Oil gravity____ GOR____

Spec. gravity____ Chlorides____ ppm Res.____ @____ °F

INDICATE TYPE AND SIZE OF GAS MEASURING DEVICE USED____

Date Time a.m. p.m.	Choke Size	Surface Pressure psi	Gas Rate MCF	Liquid Rate BPD	Remarks
0800					Picked up tools
0900					Started in hole
1445					Opened tool with a weak blow
1450					Good blow
1455		1			
1500		1.5			
1505	¼"	2.5			
1510	"	2			
1515	"	2			Closed tool
1615					Opened tool with a weak blow
1620					
1625		1			
1630		1.5			
1635	¼"	2			
1640	"	0			
1645	"	0			
1650	"	0			NO GAS.....
1655	"	0			
1700	"	0			
1705	"	0			
1710	"	0			
1715	"	0			Closed tool
2030					Opened by-pass

FORM 182-R1—PRINTED IN U.S.A.

PRODUCTION TEST DATA

10

LITTLE'S 96672 8M 8/74

Gauge No.	1639	Depth	7983'	Clock No.	13528	24 hour	Ticket No.	880200

	First Flow Period		First Closed In Pressure			Second Flow Period		Second Closed In Pressure			Third Flow Period		Third Closed In Pressure		
	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.
0	.0000	46.2	.0000		1021.9	.0000	1054.8	.0000		1986.8					
1	.0167	233.4	.0132		2514.2*	.0362	1269.7**	.0431		2265.9					
2	.0333	427.3	.0297		2542.8	.0692	1473.6	.0861		2285.7					
3	.0500	607.9	.0463		2564.8	.1021	1640.3	.1292		2301.0					
4	.0667	753.2	.0628		2578.0	.1351	1780.7	.1723		2312.0					
5	.0833	896.4	.0793		2593.4	.1681	1894.7	.2153		2320.8					
6	.1000	1021.9	.0958		2602.1	.2010	1986.8	.2584		2329.6					
7			.1124		2608.7			.3015		2336.2					
8			.1289		2615.3			.3445		2340.6					
9			.1454		2619.7			.3876		2349.4					
10			.1619		2624.1			.4307		2353.8					
11			.1785		2628.5			.4737		2360.4					
12			.1950		2630.7			.5168		2364.8					
13								.5599		2369.2					
14								.6029		2375.8					
15								.6460		2378.0					

Gauge No.	1638	Depth	8038'	Clock No.	6155	24 hour

0	.0000	95.8	.0000		1164.1	.0000	1060.4	.0000		2015.2					
1	.0168	311.5	.0133		2544.6*	.0368	1321.8**	.0435		2291.9					
2	.0337	492.3	.0299		2575.1	.0702	1492.4	.0871		2315.8					
3	.0505	692.7	.0465		2594.7	.1037	1663.0	.1306		2328.9					
4	.0673	856.1	.0631		2612.1	.1371	1803.4	.1741		2339.8					
5	.0842	986.9	.0797		2623.0	.1706	1917.9	.2177		2348.5					
6	.1010	1164.1	.0963		2631.7	.2040	2015.2	.2612		2355.1					
7			.1129		2640.5			.3047		2361.6					
8			.1296		2647.0			.3483		2368.1					
9			.1462		2651.4			.3918		2374.7					
10			.1628		2655.7			.4353		2381.2					
11			.1793		2660.1			.4789		2385.6					
12			.1960		2662.2			.5224		2389.9					
13								.5659		2394.3					
14								.6095		2398.6					
15								.6530		2403.0					

Reading Interval	5	5	10	13			Minutes

REMARKS: *Interval = 4 minutes **Interval = 11 minutes

01

SPECIAL PRESSURE DATA

DEVIATION TESTS
FOR
HARPER OIL COMPANY

NEWLIN #1
SECTION 24, T-6-S, R-29-E
CHAVES COUNTY, NEW MEXICO

DEPTH (FEET)	DEVIATION (DEGREES)	DEPTH (FEET)	DEVIATION (DEGREES)
338	1/4	8,042	1 1/4
822	1/4	8,325	1 1/4
1,320	1/4		
1,857	1/2		
1,914	1/2		
2,521	1/2		
2,973	1/2		
3,430	3/4		
4,319	1		
5,266	3/4		
5,748	3/4		
6,233	1		
6,358	1		
6,858	1		
7,357	1 1/4		

WARTON DRILLING COMPANY

N. J. Halfacre
Vice President/Operations Manager

SUBSCRIBED AND SWORN TO before me this 18th day of November, A. D. 1980.

Marilyn Neatherlin
Marilyn Neatherlin, Notary
Public, Ector County, Texas