

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

RECEIVED

OIL CONSERVATION DIVISION

P. O. BOX 2088

DEC 28 '88

ALBUQUERQUE, NEW MEXICO 87501

WELL COMPLETION OR RECOMPLETION REPORT AND LOG
ARTESIA, OFFICE

Form C-105
Revised 10-1-78

API #30-005-62644

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DISTRIBUTION	
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LAND OFFICE	☒
OPERATOR	☒

5a. Indicate Type of Lease	
State ☒	Fee ☐
5. State Oil & Gas Lease No.	
LG 8138	

1a. TYPE OF WELL		OIL WELL ☐ GAS WELL ☒ DRY ☐ OTHER ☐		7. Unit Agreement Name	
b. TYPE OF COMPLETION		NEW WELL ☒ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ OTHER ☐		Hard as Nails State Unit	
2. Name of Operator				8. Farm or Lease Name	
Yates Petroleum Corporation				Hard as Nails State Unit	
3. Address of Operator				9. Well No.	
105 South 4th St., Artesia, NM 88210				2	
4. Location of Well				10. Field and Pool, or Wildcat	
UNIT LETTER <u>A</u> LOCATED <u>660</u> FEET FROM THE <u>North</u> LINE AND <u>660</u> FEET FROM				South Pecos Slope Abo	
THE <u>East</u> LINE OF SEC. <u>27</u> TWP. <u>9S</u> RGE. <u>26E</u> 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. Casinghead	
11-28-88	12-9-88	12-17-88	3800.5' GR		
20. Total Depth	21. Plug Back T.D.	22. If Multiple Compl., How Many	23. Intervals Drilled By	Rotary Tools	Cable Tools
5100'	5038'			X	
24. Producing Interval(s), of this completion - Top, Bottom, Name					25. Was Directional Survey Made
4813-26' Abo					No
26. Type Electric and Other Logs Run					27. Was Well Cored
CNL/LDT; DLL					No
28. CASING RECORD (Report all strings set in well)					
CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8"	24#	1065'	12 1/2"	600 SX	
4 1/2"	9.5#	5100'	7-7/8"	400 SX	
29. LINER RECORD					
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	
30. TUBING RECORD					
SIZE	DEPTH SET	PACKER SET			
2-3/8"	4728'	4728'			
31. Perforation Record (Interval, size and number)					
4813-26' w/26 .42" Holes					
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.					
DEPTH INTERVAL			AMOUNT AND KIND MATERIAL USED		
4813-26'			w/1000g. 7 1/2% acid + ball sealers. SF w/40000g KCl wtr + 70000# 20/40 sd.		
33. PRODUCTION					
Date First Production	Production Method (Flowing, gas lift, pumping - Size and type pump)				Well Status (Prod. or Shut-in)
12-17-88	Flowing				SIWOPLC
Date of Test	Hours Tested	Choke Size	Prod'n. For Test Period	Oil - Bbl.	Gas - MCF
12-17-88	12	1/2"		-	573
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.
170	PKR		-	1146	-
34. Disposition of Gas (Sold, used for fuel, vented, etc.)					Test Witnessed By
Vented - Will be sold					Don Mayberry
35. List of Attachments					
Logs, Deviation Survey					
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 <u>Quinta Dora Alvarado</u>		TITLE <u>Production Supervisor</u>		DATE <u>12-27-88</u>	

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division 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 radioactivity 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 depth shall also be reported. For multiple completions, Items 30 through 34 shall be reported for each zone. The form is to be filled in quadruplicate 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 _____	T. Pictured Cliffs _____	T. Penn. "D" _____
T. Yates _____	T. Miss _____	T. Cliff House _____	T. Leadville _____
T. 7 Rivers _____	T. Devonian _____	T. Menefee _____	T. Madison _____
T. Queen _____	T. Silurian _____	T. Point Lookout _____	T. Elbert _____
T. Grayburg _____	T. Montoya _____	T. Mancos _____	T. McCracken _____
T. San Andres _____ 1056	T. Simpson _____	T. Gallup _____	T. Ignacio Qtzite _____
T. Glorieta _____ 2150	T. McKee _____	Base Greenhorn _____	T. Granite _____
T. Padlock YESO 2265	T. Ellenburger _____	T. Dakota _____	T. _____
T. Elmore _____	T. Gr. Wash _____	T. Morrison _____	T. _____
T. Tubb _____	T. Granite _____	T. Todilto _____	T. _____
T. Drinkard _____	T. Delaware Sand _____	T. Entrada _____	T. _____
T. Abo _____ 4453	T. Bone Springs _____	T. Wingate _____	T. _____
T. Wolfcamp _____	T. _____	T. Chinle _____	T. _____
T. Penn. _____	T. _____	T. Permian _____	T. _____
T. Cisco (Bough C) _____	T. _____	T. Penn. "A" _____	T. _____

OIL OR GAS SANDS OR ZONES

No. 1, from _____ to _____	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	203	203	Surface, Redbeds, Anhy				
203	745	542	Sd, Anhy				
745	2240	1495	Anhy, Dolo				
2240	2650	410	Anhy, Sd				
2650	2884	234	Anhy, Sd, Tr. Dolo				
2884	3250	366	Anhy, Sd				
3250	3444	194	Anhy, Sd, Dolo				
3444	4421	977	Anhy, Dolo				
4421	4528	107	Shale				
4528	4635	107	Shale, Dolo				
4635	5100	465	Shale				

ARTESIA FISHING TOOL COMPANY

P. O. BOX 447 PHONE (505) 746-6651

470

ARTESIA, NEW MEXICO 88210

RECEIVED

December 14, 1988

DEC 28 '88

O. C. D.

ARTESIA, OFFICE

Yates Petroleum Corporation
105 South Fourth Street
Artesia, NM 88210

Re: Hard as Nails State Unit #2
660' FNL & 660' FEL
Sec. 27, T9S, R26E
Chaves County, New Mexico

Gentlemen:

The following is a Deviation Survey for the above captioned well.

DEPTH	DEVIATION
579'	1°
1065'	1/4°
1561'	3/4°
2057'	1 1/2°
2551'	1 1/4°
3046'	1/2°
3542'	1°
3944'	1°
4346'	3/4°
4723'	1 1/4°
5100'	2°

Very truly yours,



B. N. Muncy Jr.
Secretary

STATE OF NEW MEXICO
COUNTY OF EDDY

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The foregoing was acknowledged before me this 14th day of December, 1988.



NOTARY PUBLIC

