

WORKSHEET FOR CALCULATION OF ST. IC COLUMN WELLHEAD RESSURE (P_w)

COMPANY YFC LEASE Rattle snake NZ State WELL NO. 1 DATE 1-21-81

LOCATION: Unit D Section 7 Township SS Range 25E

L 3785 H 3785 LH 1000 G 0.653 % CO₂ 5.64 % N₂ 0.67 % H₂S N/L
 d 20556 F 0.01543 GH 2472 P_{cr} 843 T_{cr} 414
3785 (4256) 15994 6.8% H₂O TABLE 10 & 11

LINE	51	1	2	3	4				
1 Q _m		0.505	0.693	0.965	1.405				
2 T _w (W.H. °R)	506	522	525	527	528				
3 T _s (B.H. °R)	557	556	555	555	554				
4 T = $\frac{(T_s + T_w)}{2}$	531.5	539	540	541	541				
5 Z (Eqn.)	0.7813	0.794	0.805	0.813	0.817				
5 T ₀	415.25	430.66	434.70	439.35	453.23				
7 Q _H T ₀	5.9530	5.7400	5.6261	5.6205	5.53747				
8 e ^s (Table XIV)	1.2501	1.2402	1.2399	1.2346	1.2242				
9 1 - e ^s (Table XIV)		0.1930	0.1730	0.1900	0.1332				
10 P ₁	1016.2	991.2	966.2	923.2	761.2				
11 P ₂ = 1030	1032.7	982.48	933.54	861.0	509.4				
12 P ₃ (Table XIV) $\frac{P_H}{2}$	0.22324	0.21525	0.21325	0.21070	0.20830				
13 P ₀ = P ₁ T ₀	6.6401	4.7674	6.7706	7.025					
14 P ₀ Q _m	3.356	4.6278	6.546	9.934					
15 L ₀ H (F ₀ Q _m) ²	11.26	21.92	42.04	92.08					
16 P ₀ = L ₀ H (F ₀ Q _m) ² (1 - e ^{-s})	2.13	4.21	3.15	12.1					
17 P ₀ = P ₁ T ₀ + F _w	984.66	939.05	864.07	599.5					
18 P ₀ = e ^s P ₀ T ₀	1290.9	1221.02	1160.7	1073.0	731.5				
19 P ₀	1136.2	1105.1	1072.0	1036.2	855.3				
20 P = $(\frac{P_0}{T_0}) P_s$	1076.2	1048.1	1021.8	982.2	806.2				
21 P ₀ = (P ₀ P ₀)	1.279	1.243	1.212	1.165	0.959				
22 T ₀ T ₀	1.289	1.301	1.300	1.307	1.309				

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C/SF

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

OCT 30 1980

Form C-105
Revised 11-1-80

5a. Indicate Type of Lease
State ☒ Fee ☐
5. State Oil & Gas Lease No.
NM - LG-252

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

ARTESIA, OFFICE

7. Unit Agreement Name
8. Farm or Lease Name
Rattlesnake NZ State Com
9. Well No.
1
10. Field and Pool, or Wildcat
Pecos Slope - Abo Gas
Unders. Abo

2. Name of Operator
Yates Petroleum Corporation
3. Address of Operator
207 South 4th St., Artesia, NM 88210

4. Location of Well
UNIT LETTER <u>D</u> LOCATED <u>660</u> FEET FROM THE <u>North</u> LINE AND <u>660</u> FEET FROM
THE <u>West</u> LINE OF SEC. <u>7</u> TWP. <u>5S</u> RGE. <u>25E</u> NMPM

12. County
Chaves

15. Date Spudded	16. Date T.D. Reached	17. Date Compl. (Ready to Prod.)	18. Elevations (DF, RAB, RT, GR, etc.)	19. Elev. Casinghead
8-16-80	8-23-80	10-23-80	3879' GR	
20. Total Depth	21. Plug Back T.D.	22. If Multiple Compl., How Many	23. Intervals Drilled By	23. Intervals Rotary Tools
4300'	3865'			0-4300'
24. Producing interval(s), of this completion - Top, Bottom, Name				25. Was Directional Survey Made
3764-3975' Abo				No

26. Type Electric and Other Logs Run	27. Was Well Cored
CNL/FDC, DLL	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#	457'	17-1/2"	450 sacks	
5-1/2"	14#	4036'	7-7/8"	425 sacks	

29. LINER RECORD					30. TUBING RECORD		
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					2-3/8"	3741'	3741'

31. Perforation Record (Interval, size and number)	32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
3961-75' w/10 .50" holes	DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
3961-64' (1 spf) 3972-75' (2 spf)	3961-75'	w/2000 g. 15% acid & nitrogen
3764-3806' w/20 .50" holes	3764-3806'	5F w/15% acid & 33600 g. gel KCL wtr & 60000# sd. Used 34-3/4 tons

33. PRODUCTION								CO2.	
Date First Production		Production Method (Flowing, gas lift, pumping - Size and type pump)				Well Status (Prod. or Shut-in)			
10-23-80		Flowing				SIWOPLC			
Date of Test	Hours Tested	Choke Size	Prod'n. For Test Period	Oil - Bbl.	Gas - MCF	Water - Bbl.	Gas - Oil Ratio		
10-23-80	24	1/2"		-	2899	-	-		
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API (Corr.)			
450#	Pkr		-	2899	-	-			

34. Disposition of Gas (Sold, used for fuel, vented, etc.)	Test Witnessed By
Vented - will be sold	Bill Hansen

35. List of Attachments
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>Albert R. Hall</u>	TITLE <u>Engineer</u>	DATE <u>October 27, 1980</u>