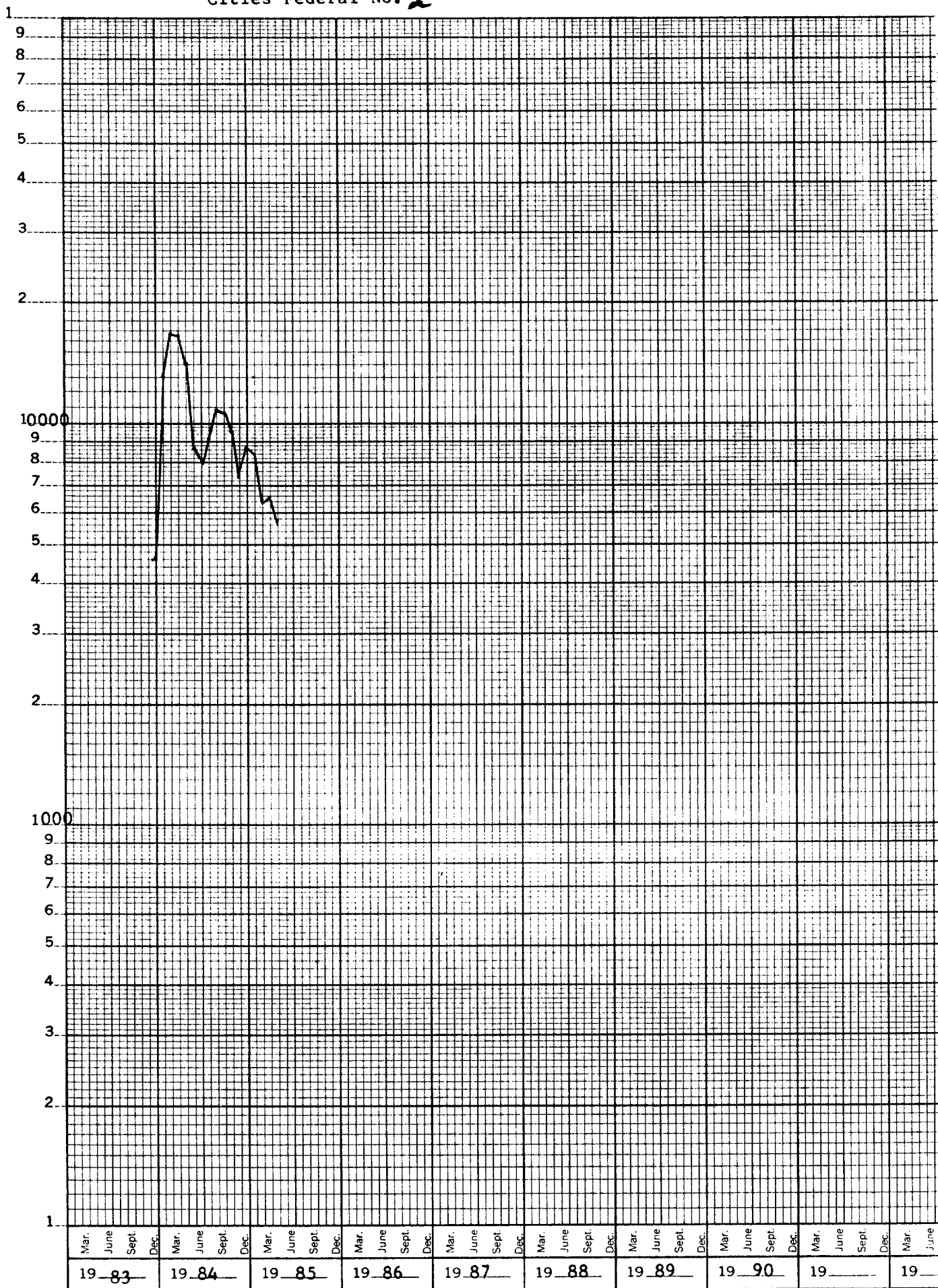


ZIA ENERGY, INC.

Cities Federal No. **2**



47 6840

BEFORE EXAMINER QUINTANA	
OIL CONSERVATION DIVISION	
210	EXHIBIT NO. 4
CASE NO. 8639	

Zia Energy, Inc.

Jalmat Production Data-Sec. 20

Cities Federal No. 2

<u>Month/year</u>	<u>- MCF</u>
Dec 83	4651
Jan 84	12953
Feb 84	16774
Mar 84	16313
Apr 84	14181
May 84	8646
Jun 84	8044
Jul 84	9078
Aug 84	10904
Sep 84	10765
Oct 84	9543
Nov 84	7313
Dec 84	8741
Jan 85	8404
Feb 85	6493
Mar 85	6577
Apr 85	5681

Cumulative Jalmat Gas Production

Cities Service Closson No.6
1,615,068 MCF

Zia Energy, Inc. Cities Federal No. 1
764,847 MCF

Zia Energy, Inc. Cities Federal No. 2
166,229 MCF

BEFORE EXAMINER QUINTANA	
OIL CONSERVATION DIVISION	
<u>31A</u>	EXHIBIT NO. <u>5</u>
CASE NO. <u>8639</u>	

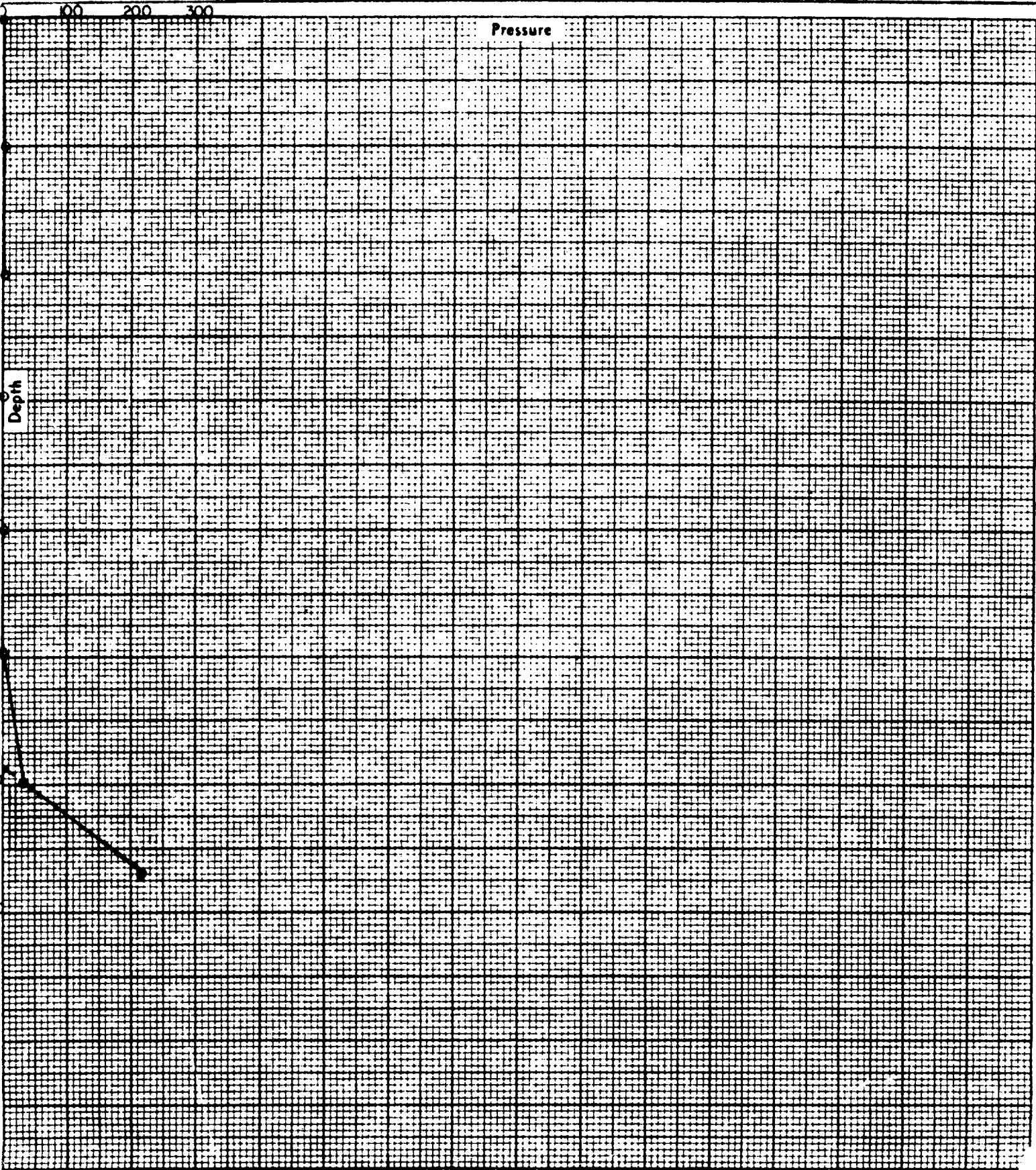
JOHN W. WEST ENGINEERING COMPANY
412 NORTH DAL PASO, HOBBS, NEW MEXICO

TELEPHONES 393-3942
393-3117

BOTTOM HOLE PRESSURE SURVEY REPORT

OPERATOR ZIA ENERGY, Inc.
LEASE Cities Federal
WELL NO. 2
FIELD _____
DATE 12-13-83 TIME 1:15 P.M.
STATUS Shut-In TEST DEPTH 3350'
TIME S.I. _____ LAST TEST DATE _____
CAS. PRES. _____ BHP LAST TEST _____
TUB. PRES. 0 psi BHP CHANGE _____
ELEV. _____ FLUID TOP 2935'
DATUM _____ WATER TOP _____
TEMP _____ RUN BY W.S.
CLOCK NO. 24959 GAUGE NO. 19389
ELEMENT NO. 23613 (0-945 psi)

DEPTH	PRESSURE	GRADIENT
000	0	
500	0	Neg.
1000	0	Neg.
1500	0	Neg.
2000	0	Neg.
2500	0	Neg.
3000	73	.146
3350	228	.443



BEFORE EXAMINER QUINTANA	
OIL CONSERVATION DIVISION	
217	EXHIBIT NO. 6
CASE NO. 8639	

Zia Energy, Inc.

CSO Federal No. 2-F

Sec. 20-T22S-R36E

Elevation 3561' RKB

BEFORE EXAMINER QUINTANA	
OIL CONSERVATION DIVISION	
Zia	EXHIBIT NO. 7
CASE NO.	8639

8 5/8" - 28# casing set @ 469'
w/300 sxs cement - circulated

3243' Top of Yates

Perforate Jalmat zones of porosity from logs
Stimulate by fracture treating as required

3444' Top of Seven Rivers

3700' Set bridge plug

3780' Base of Jalmat Field

3880' Top of Queen

3898'-3978' (33) present perforations
South Eunice Seven Rivers-Queen Field

4036' 4 1/2"-10.5# casing set with 650 sxs
Top of cement 100' from surface - Temp. survey

T.D. 4040'

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE

(See instructions on
reverse side)Form approved.
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ DRY ☐ Other ☐		5. LEASE DESIGNATION AND SERIAL NO. LC-030132-b	
b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other ☐		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR Penroc Oil Corporation		7. UNIT AGREEMENT NAME	
3. ADDRESS OF OPERATOR P. O. Drawer 831, Midland, Texas 79702		8. FARM OR LEASE NAME CSO-Federal	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements) At surface 1650' fnl, 2310' fwl At top prod. interval reported below At total depth		9. WELL NO. 2	
14. PERMIT NO.		DATE ISSUED	
15. DATE SPUDDED 11-4-78		16. DATE T.D. REACHED 11-9-78	
17. DATE COMPL. (Ready to prod.) 11-29-78		18. ELEVATIONS (DF, REB, RT, GR, ETC.) 3550.3' GR	
19. ELEV. CASINGHEAD 3548.3'		10. FIELD AND POOL, OR WILDCAT So. Eunice SR-Q	
20. TOTAL DEPTH, MD & TVD 4040'		21. PLUG BACK T.D., MD & TVD 4000'	
22. IF MULTIPLE COMPL., HOW MANY?		23. INTERVALS DRILLED BY ROTARY TOOLS CABLE TOOLS	
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 3898-3978 Queen		25. WAS DIRECTIONAL SURVEY MADE No	
26. TYPE ELECTRIC AND OTHER LOGS RUN Compensated Density-Neutron & Forxo-Guard		27. WAS WELL CORED No	
28. CASING RECORD (Report all strings set in well)			
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE
8 5/8"	28#	469'	11'
4 1/2"	10.50#, 11.60#	4036'	7 7/8"
		CEMENTING RECORD—	
		300 sxs. (Circ.)	
		650 sxs.	
		Top cem. 100' by Temp. Svy.	
		AMOUNT PULLED	
		None	
		None	
29. LINER RECORD			
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*
			SCREEN (MD)
30. TUBING RECORD			
SIZE	DEPTH SET (MD)	PACKER SET (MD)	
2 3/8"	3912'	None	
31. PERFORATION RECORD (Interval, size and number)			
3898-3916', 3926, 27, 46, 48, 52, 54, 60, 62, 63, 67, 74, 75, 76, 78.			
1 shot/ft., 1/2", Total 33 holes			
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.			
DEPTH INTERVAL (MD)		AMOUNT AND KIND OF MATERIAL USED	
3898-3978		A/4000 gals. 15% MCA	
" "		Frac/40000 gals gelled Kgl	
		wtr. + 58,400# 20-40 &	
		10-20 mesh sd.	
33. PRODUCTION			
DATE FIRST PRODUCTION 11-30-78		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Pumping	
DATE OF TEST 1-9-79		WELL STATUS (Producing or shut-in) Prod.	
HOURS TESTED 24	CHOKE SIZE Open	OIL—BBL. 25	GAS—MCF. 45.25
WATER—BBL. 41	GAS-OIL RATIO 1810		
FLOW, TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL GRAVITY-API (CORR.)
None	18	25	32.3°
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Vented			
35. LIST OF ATTACHMENTS Compensated Density-Neutron, Forxo-Guard, Gamma-Neutron, Deviation Survey			
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records			
SIGNED <i>[Signature]</i>		TITLE President	
DATE 1-10-79			

*(See Instructions and Spaces for Additional Data on Reverse Side)

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See Instructions on Items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see Item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments. Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in Item 22, and in Item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in Item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool. Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for Items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES:

SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	NEAR. DEPTH	TRUE TEST DEPTH
Yates	3354	3366	Fne gry-red sd	Rustler	1357	
	3409	3422	" " " "		3243	
	3430	3434	" " " "		3444	
Seven Rivers	3640	3646	Fne gry sd	Seven-Rivers	3880	
	3694	3700	Fne sdy tan dol			
	3804	3810	Fne " " "			
Queen	3838	3844	Fne gry sd	Queen		
	3898	3916	Fne gry-dolo. sd.			
	3924	3926	Fne tan-brn sdy dol.			
	3945	3954	" " " "			
	3959	3963	" " " "			
	3973	3978	" " " "			

38. GEOLOGIC MARKERS

NAME	NEAR. DEPTH	TRUE TEST DEPTH
Rustler	1357	
Yates	3243	
Seven-Rivers	3444	
Queen	3880	

BEFORE EXAMINER QUINTANA
OIL CONSERVATION DIVISION
Zia EXHIBIT NO. 8
CASE NO. 8639