

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. NM28790	
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 Phillips Petroleum Company				7. UNIT AGREEMENT NAME --	
3. ADDRESS OF OPERATOR Room 806, Phillips Bldg., Odessa, Texas				8. FARM OR LEASE NAME Shug-A	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 660' FN & 330' FE (Unit A) At top prod. interval reported below Same At total depth				9. WELL NO. 1	
14. PERMIT NO. ARTEBA, QF 151 -- 7-15-77				10. FIELD AND POOL, OR WILDCAT Shugart-7R-Queen-Yates-Gb.	
15. DATE SPUDDED 8-24-77				11. SEC. T., R., M., OR BLOCK AND SURVEY OR AREA 33,18S,31E	
16. DATE T.D. REACHED 9-3-77				12. COUNTY OR PARISH Eddy	
17. DATE COMPL. (Ready to prod.) 9-22-77				13. STATE New Mexico	
18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 3623' DF				19. ELEV. CASINGHEAD --	
20. TOTAL DEPTH, MD & TVD 4300		21. PLUG, BACK T.D., MD & TVD 3940'		23. INTERVALS DRILLED BY --	
22. IF MULTIPLE COMPL., HOW MANY* --		24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* Yates-top 2285' bottom 2715'; Grayburg-top 3870, bottom 3940' 7 Rivers-top 2715' bottom 3395'; Queen-top 3395' bottom 3870'		25. WAS DIRECTIONAL SURVEY MADE No	
26. TYPE ELECTRIC AND OTHER LOGS RUN Schlumberger BHC Sonic-GR, CNL FDC, DLL-RXO, Caliper				27. WAS WELL CORED No	
28. CASING RECORD (Report all strings set in well)					
CASING SIZE		WEIGHT, LB./FT.		CEMENTING RECORD	
8-5/8"		32# K-55		Class C w/2% CaCl ₂ , 1/4# Flocele/sx --	
4-1/2"		11.6# N-80		(Circ 85 sx at surface)	
		4300'		Class H w/8# salt & 1/4# Flocele/sx, --	
				(Temp survey TOC at 1900')	
29. LINER RECORD					
SIZE		TOP (MD)		BOTTOM (MD)	
30. TUBING RECORD					
SIZE		DEPTH SET (MD)		PACKER SET (MD)	
2-3/8"		3900			
31. PERFORATION RECORD (Interval, size and number)					
Perforated w/2 jet shots/ft at 3784-86' 3812-14', 3842-48', 3854-64', 3894-96', 3901-3903' total 26'=52 holes; 3412-22', 3666-72', total 16', 32 holes; 2622-30, 2636-40', 2647-74', 2704'-14' (total 49, 98 holes).					
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.					
DEPTH INTERVAL (MD)		AMOUNT AND KIND OF MATERIAL USED			
4040-4088'		Sqzd w/56 sx Class H into perms; 9 sx on top of retainer at 3955'. Reversed 10 sx. TOC at 3940'.			
3784-3903'		3000 gals 15% HCL acid w/additives			
33.* PRODUCTION (Note Item 32 continued on reverse side)					
DATE FIRST PRODUCTION 9-22-77 (perf)		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Insert pump 2" X 1 1/4" X 12'		WELL STATUS (Producing or shut-in) Producing	
DATE OF TEST 11-2-77		HOURS TESTED 24		CHOKE SIZE --	
FLOW. TUBING PRESS.		CASING PRESSURE		CALCULATED 24-HOUR RATE	
--		--		--	
OIL—EBL.		GAS—MCF.		WATER—EBL.	
105		123		86	
OIL GRAVITY-API (CORR.)		OIL GRAVITY-API (CORR.)		OIL GRAVITY-API (CORR.)	
--		--		33.6	
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) flwd-pending connection to gathering system					
35. LIST OF ATTACHMENTS Logs furnished direct by Schlumberger					
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records					
SIGNED W. J. Mueller		TITLE Engineering Advisor		DATE 11-3-77	

*(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: "Seals 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.)

784-3903'-fraced w/15,000 gals ref oil w/26,000# sand using ball sealers. Treated perfs 3660-72' w/1000 gals 15% HCL acid w/ additives; moved BP to 3450', treated perfs 3412-22' w/1000 gals 15% HCL acid w/additives. Fraced to 15000 gals ref oil w/ 26000# sand, using ball sealers. Treated perfs 2622-2714' w/5000 gals 15% HCL acid w/additives using one ball sealer per 1000'. Fraced w/31000 gals refined oil w/Shurflo and with 52,000# sand, staged w/ball sealers.

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.	38. GEOLOGIC MARKERS		
				NAME	MEAS. DEPTH	TRUE VERT. DEPTH
face, sand, caliche	0	675	At 1100', encountered salt water flow. Water flow continued at approximate rate of 150 to 200 bbls. per day and was used in drilling fluid until total depth was reached and casing set. Water analysis: Magnesium 16,560 ppm Sulfates 46,250 ppm Chlorides 218,000 ppm	Rustler	675	
ydrite	675	766		Yates	2285	
ydrite, salt	766	1204		7-Rivers	2715	
ydrite, redbeds	1204	1771		Queen	3395	
	1771	1809		Grayburg	3870	
t, anhydrite	1809	2081		San Andres	4100	
ydrite	2081	2436				
ydrite, lime	2436	2747				
ydrite	2747	2847				
ydrite, lime	2847	3000				
ydrite	3000	3285				
ydrite, lime	3285	3856				
ydrite	3856	3991				
ydrite, lime	3991	4300'				