PHILLIPS PETROLEUM COMPANY WELL PRODUCTION TEST

Well 7/11-2DST No. 3

9776'-9836' RKB Interval:

Date of test: October 6 through October 7, 1968
Hole size: 9 5/8" casing set at 10510' RKB with
Baker Model "K" cement retainer set at
9913' RKB.

Test String Make-up

<u>Item</u>		Lgth	RKB Setting Depth
BJ Bullnose Plug		2.50	9870.59
BJ Recorder Case		4.00	9868.09
BJ Perforated Sub		1.00	9864.09
BJ Recorder Hanger Sub	•	1.00	9863.09
BJ Recorder Case		4.00	9862.09
BJ Recorder Hanger Sub		1.00	9858.09
Cross over Sub		1.64	9857.09
Tubing for Leutert Recorder		31.33	9855.45
Baker Recorder Hanger Sub		0.88	9824.12
Perforated tubing		31.60	9823.24
Tubing, 3½" 9.3 lb/ft N-80		93.50	9791.64
Baker Retrievamatic Packer		6.80	9698.14
Cross over Sub		1.20	9691.34
Cross over Sub		0.82	9690.14
Drill Collars, 6½" x 21/4"		278.97	9689.32
Cross over Sub		0.85	9410.35
Pressure Balanced Bumper Sub		21.78	9409.50
Cross over Sub		1.05	9387.72
Tubing 3½" 9.3 lb/ft N-80		9046.67	9386.67
Otis Test Tree		24.25	340.00
Cross over Sub	•	0.20	
Tubing, 3½"		326.00	
Hydril Value			
Baker Test Head			

Depth of Pressure Recorders:

Bottom BJ Recorder 9863'RKB 9858' RKB Top BJ Recorder Leutert Recorder 9834' RKB

The following are attached to this report:

- 1) Test Summary
- Wellhead pressure measurements.

TEST SUMMARY

Test started: 1040 hrs October 10, 1968 Test completed: 0540 hrs October 11, 1968

	Tim	A	Time required	•
Operation	From	To	for operation	Remarks
Initial Flow	1040	1055	0 hrs 15 mins	Well flowed 2 barrels diesel immediately
				after opening and then approximately
Initial Shut-in	1055	1430	4 hrs 35 mins	5 gallons during 15 min flow period. Wellhead pressure increased at approxi-
Opened Well	1430	1500	0 hrs 30 mins	mately 60 psi/hr rate. Final shut-in pressure was 380 psia. Well would not flow. Zero furface pressure
Pumped into formation	1500	1516	0 hrs 16 mins	Pressured annulus to 1500 psi. Pumped
				two barrels diesel oil into formation at 4300 psi and 0.9 bbl per min rate.
Shut-in well	1516	1615	0 hrs 59 mins	Pressure decreased from 4300 psi to 3900 psi during shut-
Opened Well	1615	1830	l hr 45 mins	in. Released pressure. Surface pressure
				immediately decreased to zero and well would
Displace Tubing	1830	1935	1 hr 05 mins	not flow. Released packer and reversed out diesel
				oil from tubing. Pumped into tubing 10 bbls diesel and
				followed with 24 bbls 15% hydrocloric acid containing 30 gallons
				MORFLO and 3 gallons HA145 inhibitor. The acid was displaced
Set Packer	1935	2015	0 hrs 40 mins	with 58 bbls diesel. Set packer and press- ured annulus to 300
				psi.

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	Acidized Well	2015	2032	0	hr 17	mins	Pumped 30 bbls diesel	
							to displace 6 bbls	
							diesel and 24 bbls acid into the forma-	
							tion. Initial pumpin pressure 4000 psi	g
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1							and initial rate 2	
							bbls/min. Final pumping pressure 4300	
							psi and final rate 1 3/4 bbls/min.	
*	Shut-in Well	2032	2103	0	hr 31	. mins	Allowed acid to "soak	11
							Pressure decreased from 4300 psi to 4000	
							psi during shut-in period.	
	Opened Well	2103	0540	8	hrs 37	mins	Well flowed back a	•
		C *					total of 16.75 bbls of diesel oil. The	
				•			last barrel of diesel	
							required 3 hours to flow back. Wellhead	
							flowing pressure was zero.	
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DATE: October 6, 1968

PHILLIPS PETROLEUM CO.

LEASE: 7/11

SURFACE PRESSURE

WELL NO.: 7/11-2

INTERVAL: 9776'-9836'

TEST NO.: DST No. 3

	WELL	HEAD	
TIME	TEMP °F	PRESS PSIG	REMARKS
1040	N.R.		Pressure less than 50 psi
1055			Pressure less than 50 psi
1115		65	
1120		70	
1125		7.5	
1130		95	
1135		112	
1140		128	
1145		140	
1150		150	
1155		161	
1200		170	
1215		199	
1230		224	
1245		247	
1300		266	
1315		284	
1330		302	
1345		317	
1400		335	
1415		351	
1430		365	Opened well and pressure dropped to zero
			immediately.
1500		·	Started pumping diesel into well