

TOM HANSEN COMPANY, INC.

COMPANY Union Oil Co. of California FIELD Wildcat
 LEASE Midway State WELL 1 COUNTY Lea STATE New Mexico
 DATE 1/13-18/69 FORMATION Devonian

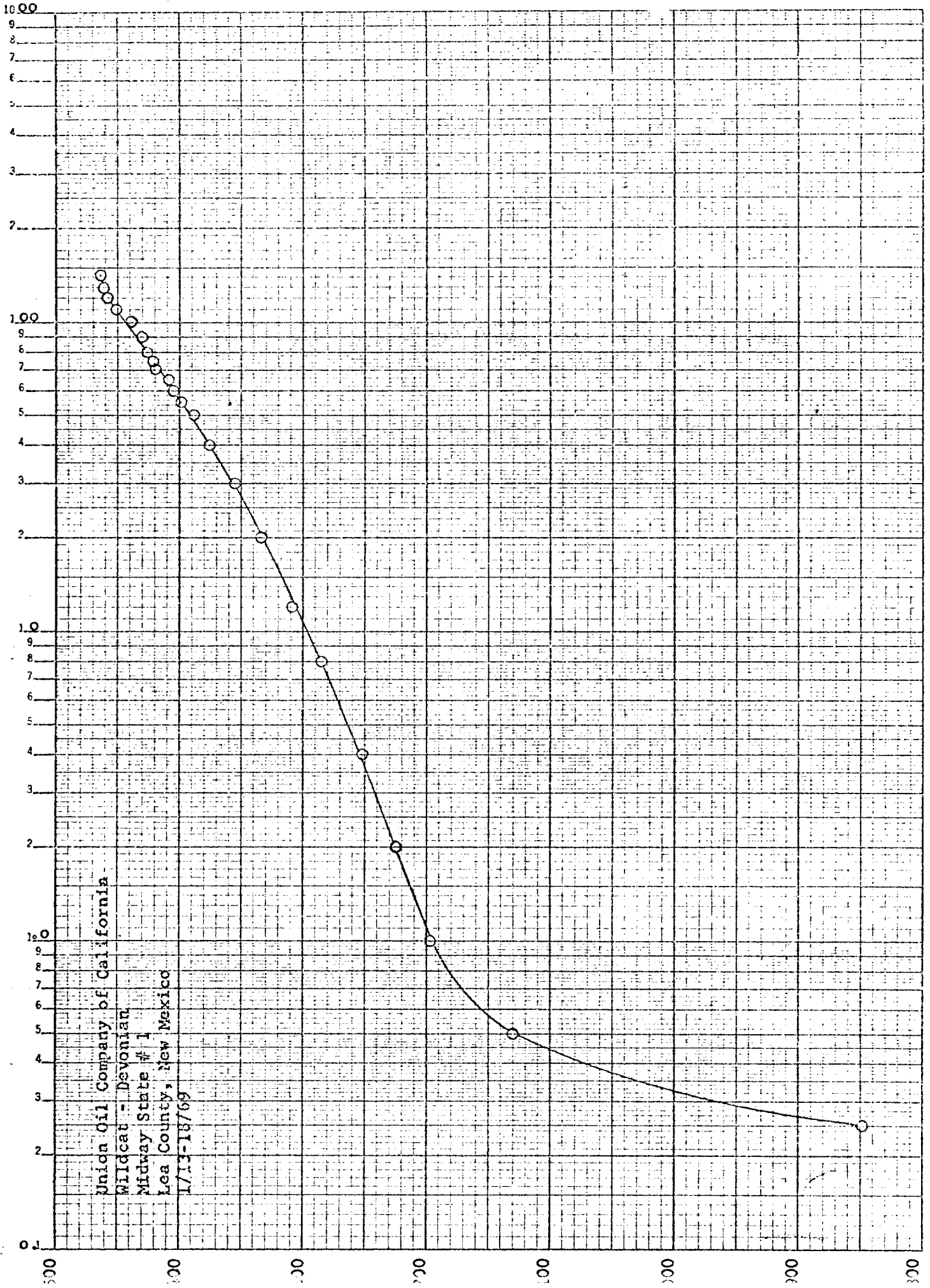
C H R O N O L O G I C A L D A T A

Date	Time	Well Status	Elapsed Time Hrs-Min.	$\frac{T + \Delta T}{\Delta T}$	Oil BOPD	Tbg. Press.	BHP @ R. D. 11,350'	BHP @ M. P. 11,498'
1-13-69	08:30	Arrived on location - ran flowing gradient						
	11:30	Instrument on bottom	00 - 00		463	71	3507	3556
	12:30		01 - 00			71	3507	3556
	12:30		02 - 00			71	3490	3539
	13:30	Shut in well	00 - 00					
	13:45		00 - 15	1421.0			3798	3848
	14:00		00 - 30	711.0			4085	4130
	14:30		01 - 00	356.0			4147	4197
	15:30		02 - 00	178.5			4175	4225
	17:30		04 - 00	89.8			4202	4252
	21:30		08 - 00	45.4			4235	4285
1-14-69	01:30		12 - 00	30.6			4259	4309
	09:30		20 - 00	18.8			4284	4334
	19:30		30 - 00	12.8			4305	4355
1-15-69	05:30		40 - 00	9.9			4326	4376
	15:30		50 - 00	8.1			4339	4389
	20:30		55 - 00	7.5			4348	4398
1-16-69	01:30		60 - 00	6.9			4355	4405
	06:30		65 - 00	6.5			4359	4409
	09:00	Pulled bomb & ran gradient traverse	67 - 30	6.3			4363	4413
	12:00	Back on bottom	70 - 30	6.0		690	4370	4420
	16:30		75 - 00	5.7			4372	4422
	21:30		80 - 00	5.4			4376	4426
1-17-69	07:30		90 - 00	4.9			4381	4431
	17:30		100 - 00	4.6			4389	4439
1-18-69	03:30		110 - 00	4.2			4402	4452
	13:30		120 - 00	4.0			4408	4458
	23:30		130 - 00	3.7			4311	4461
1-19-69	12:30		143 - 00	3.5			4414	4464

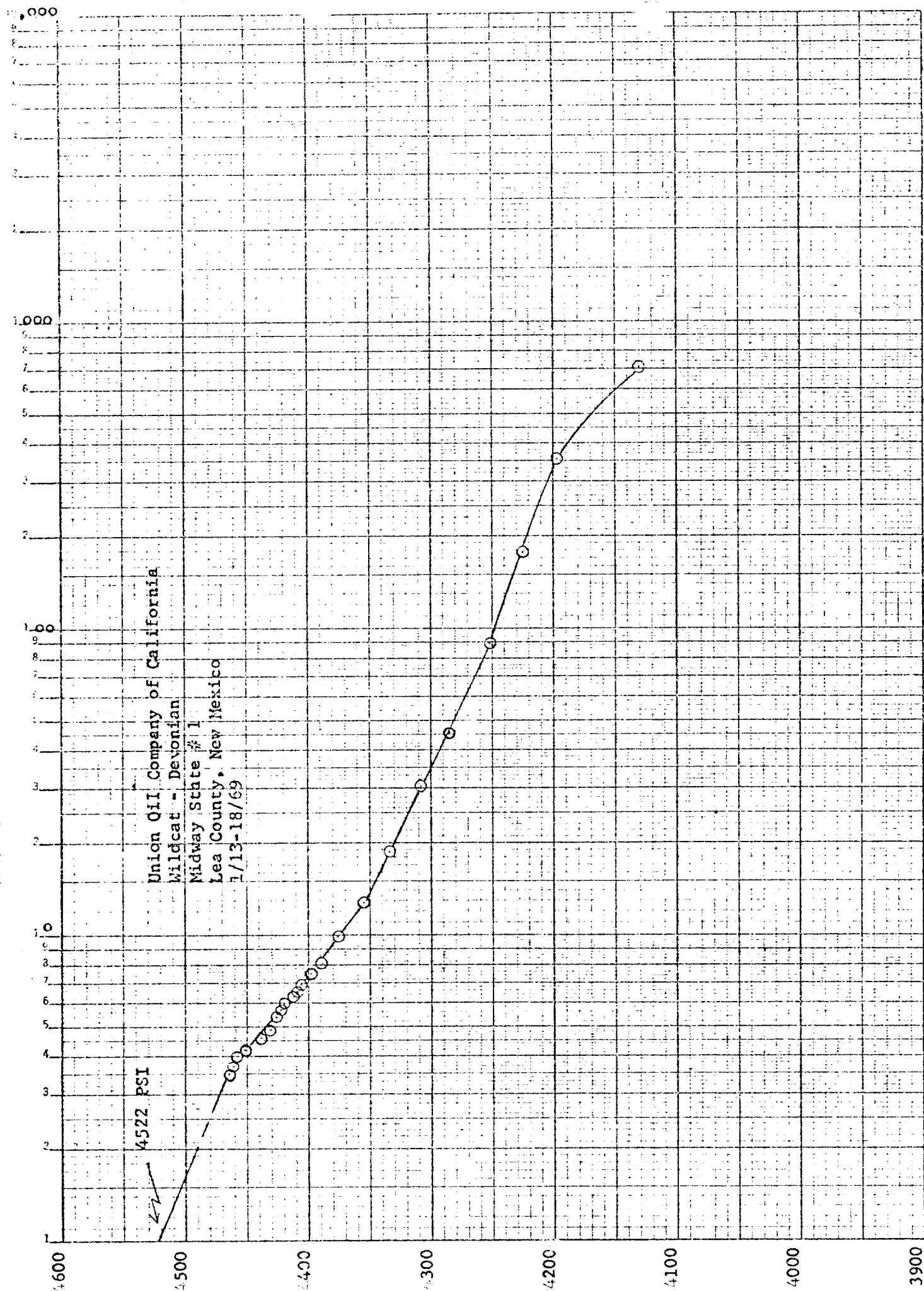
Total Accumulative Production: 6840 Bbls.

Daily Rate: 463

T = 355 (hours)



LOG CUMULATIVE SHUT IN TIME: HOURS

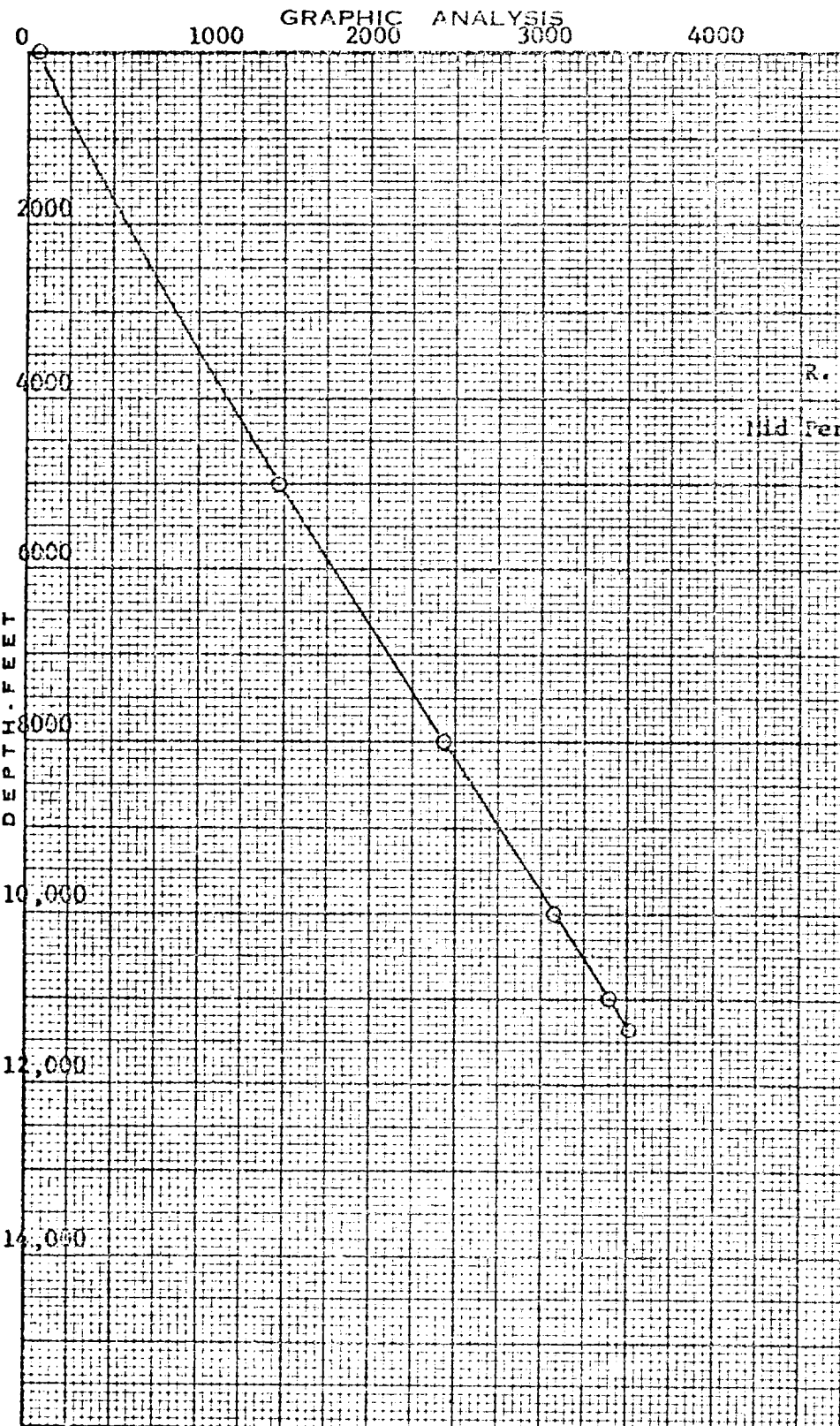


$$T + \Delta T$$



INDIVIDUAL WELL DATA SHEET

Company Union Oil Co. of California Lease Midway State Well No. 1
 Field Wildcat (Devonian) County Lea State New Mexico
 Test Date 1-13-69 Time 08:00 Status of Well Flowing Shut In



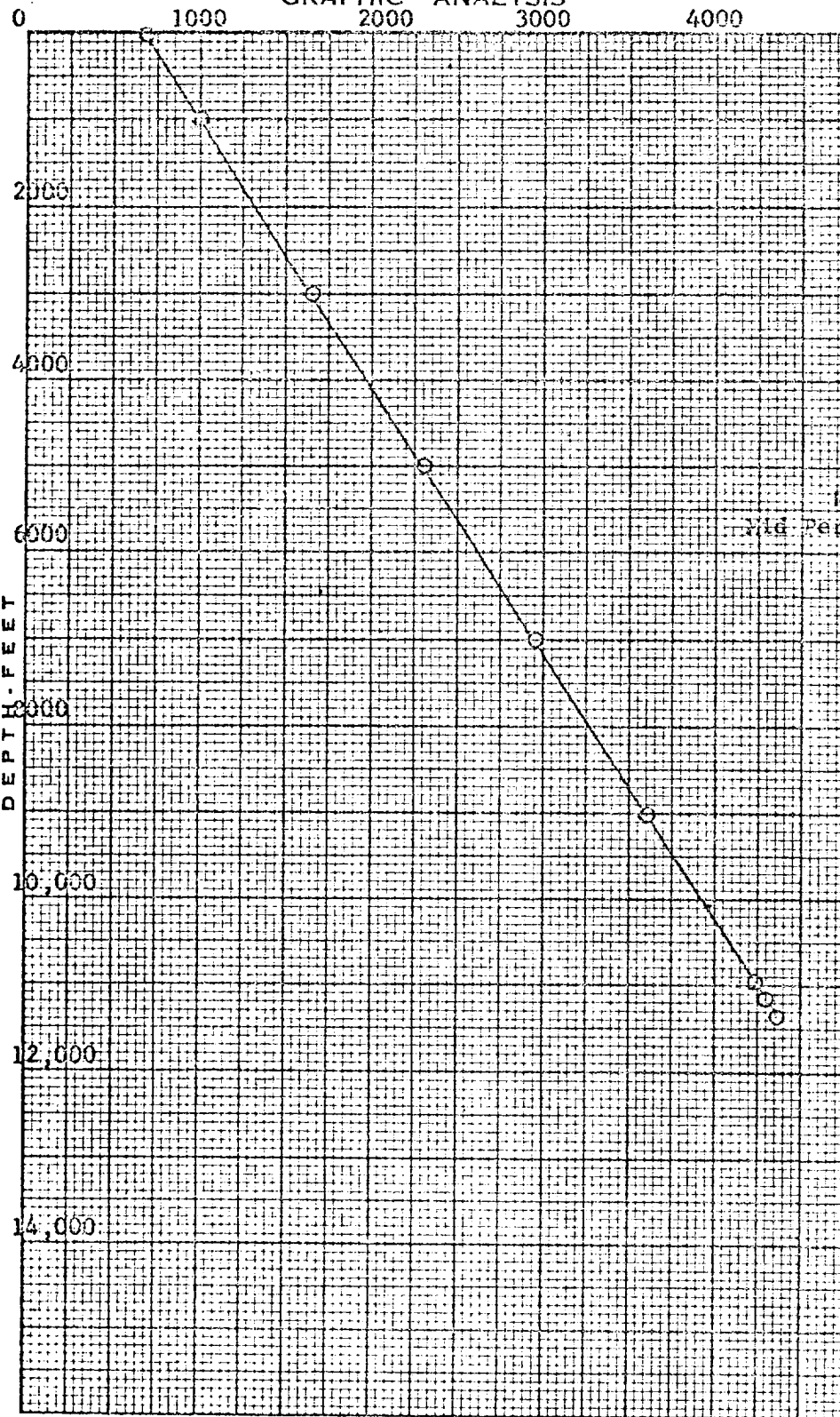
Depth Feet	Pressure Lbs. Sq. In.	*Gradient Lbs./Ft.
10	71	
5000	1475	.281
8000	2439	.321
10,000	3079	.320
11,000	3390	.311
R. D. - 11,350	3507	.334
Mid Perf. - 11,498	3556	(.334)
Elev.-D.F.	Gr.	3818
Pressure Datum	Mid Perf.	
Top of Pay		
Tubing	2 3/8	Depth 11,530
B.H.C.		Packer 11,405
Casing	5 1/2	Depth
Perf.	11,476-11,520	
Total Depth		
Formation	Devonian	
Casing Press.		
Tubing Press.	71	
Top of Fluid	Flowing	
Top of Water		
Hrs.-Shut In	Flowing	
Temp. @ 11,350	=	188 °F
Last Test Date	NPT	
Press. Last Test		
B.H.P. Change		
Gain-Loss/Day		
Instrument	Amerada	
Number	21602-N	RPG 3
Calibration No.	@	F
Run By	Hadorn & Allman	
Calculated By	Turner	



INDIVIDUAL WELL DATA SHEET

Company Union Oil Co. of California Lease Midway State Well No. 1
 Field Wildcat (Devonian) County Lea State New Mexico
 Test Date 1-16-69 Time 12:00 Status of Well Shut in Shut In 68 hours

GRAPHIC ANALYSIS



Depth Feet	Pressure Lbs. Sq. In.	*Gradient Lbs./Ft.
10	686	
1000	1001	.315
3000	1654	.326
5000	2306	.326
7000	2954	.324
9000	3611	.328
10,950	4233	.319
11,150	4300	.335
R. D. - 11,350	4367	.335
Mid Perf. - 11,498	4417	(.335)
Elev.-D.F.		Gr. 3218
Pressure Datum	Mid Perf.	
Top of Pay		
Tubing	2 3/8	Depth 11,520
B.H.C.		Packer 11,405
Casing		Depth
Perf.	11,476-11,520	
Total Depth		
Formation	Devonian	
Casing Press.		
Tubing Press.	690 DWP	
Top of Fluid	Surface	
Top of Water	None	
Hrs.-Shut In	68	Flowing
Temp. @11,350	= 188 °F	
Last Test Date	NPT	
Press. Last Test		
B.H.P. Change		
Gain-Loss/Day		
Instrument	Amerada	
Number	21602-N	RPG 3
Calibration No.	@	°F
Run By	Allman	
Calculated By	Turner	