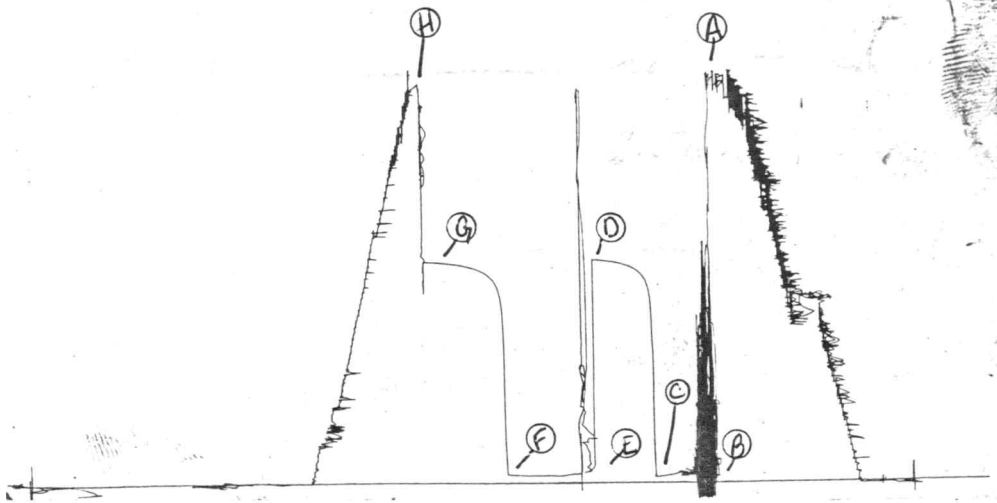


V 11 < P

4.325

TK# 4325
I.



Company National Oil Company Lease & Well No. Ben Hinnergardt #1-A
 Elevation -- Formation Kansas City Effective Pay -- Ft. Ticket No. 4325
 Date 6-27-80 Sec. 12 Twp. 20 S Range 21 W County Ness State Kansas
 Test Approved by Jay R. Dirks Western Representative Les Holtz

Formation Test No. 1 Interval Tested from 4382 ft. to 4390 ft. Total Depth 4390 ft.
 Packer Depth 4376 ft. Size 6 3/4 in. Packer Depth 4382 ft. Size 6 3/4 in.
 Packer Depth -- ft. Size -- in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set --
 Top Recorder Depth (Inside) 4383 ft. Recorder Number 1134 Cap. 4500
 Bottom Recorder Depth (Outside) 4390 ft. Recorder Number 1049 Cap. 3500
 Below Straddle Recorder Depth -- ft. Recorder Number -- Cap. --
 Drilling Contractor H-30 Rig #2 Drill Collar Length 474 I. D. 2.25 in.
 Mud Type Starch Viscosity 40 Weight Pipe Length -- I. D. -- in.
 Weight 9.3 Water Loss 24.0 cc. Drill Pipe Length 3916 I. D. 3.8 in.
 Chlorides 60,000 P.P.M. Test Tool Length 20 ft. Tool Size 4 1/2 FH in.
 Jars: Make None Serial Number -- Anchor Length 8 ft. Size 4 1/2 FH in.
 Did Well Flow? No Reversed Out -- Surface Choke Size 1/2 in. Bottom Choke Size 1/2 in.
 Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 FH in.

Blow: Weak Blow throughout initial flow period No Blow, Flushed tool, Blew throughout
Final Flow Period

Recovered 154 ft. of Heavy Oily Gas Cut Mud
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks: Slid 4 feet to bottom

Time Set Packer(s) 10:00 ~~A.M.~~ P.M. Time Started Off Bottom 1:15 ~~P.M.~~ A.M. Maximum Temperature 122
 Initial Hydrostatic Pressure (A) 2301 P.S.I.
 Initial Flow Period Minutes 30 (B) 41 P.S.I. to (C) 34 P.S.I.
 Initial Closed In Period Minutes 51 (D) 1279 P.S.I.
 Final Flow Period Minutes 60 (E) 80 P.S.I. to (F) 47 P.S.I.
 Final Closed In Period Minutes 66 (G) 1266 P.S.I.
 Final Hydrostatic Pressure (H) 2263 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 6-27-80

Test Ticket No. 4325

Recorder No. 1134

Capacity 4500 Location 4383 Ft.

Clock No. -

Elevation - Well Temperature 122 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2301	P.S.I.	10:00 P M	
B First Initial Flow Pressure	41	P.S.I.	30 Mins.	30 Mins.
C First Final Flow Pressure	34	P.S.I.	45 Mins.	51 Mins.
D Initial Closed-in Pressure	1279	P.S.I.	60 Mins.	60 Mins.
E Second Initial Flow Pressure	80	P.S.I.	60 Mins.	66 Mins.
F Second Final Flow Pressure	47	P.S.I.		
G Final Closed-in Pressure	1266	P.S.I.		
H Final Hydrostatic Mud	2263	P.S.I.		

PRESSURE BREAKDOWN

Point Mins.	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.
	of <u>5</u> mins. and a final inc. of <u>0</u> Min.		of <u>3</u> mins. and a final inc. of <u>0</u> Min.		of <u>5</u> mins. and a final inc. of <u>0</u> Min.		of <u>3</u> mins. and a final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	
P 1	41	0	34	0	80	0	47	
P 2	62	3	422	3	Flushed tool	3	288	
P 3	69	6	669	6	53	6	547	
P 4	51	9	1058	9	51	9	853	
P 5	41	12	1156	12	45	12	1061	
P 6	36	15	1193	15	41	15	1131	
P 7	34	18	1215	18	43	18	1169	
P 8		21	1230	21	43	21	1189	
P 9		24	1242	24	43	24	1207	
P10		27	1251	27	43	27	1217	
P11		30	1256	30	43	30	1224	
P12		33	1261	33	45	33	1231	
P13		36	1267	36	47	36	1239	
P14		39	1271	39		39	1244	
P15		42	1272	42		42	1251	
P16		45	1274	45		45	1254	
P17		48	1276	48		48	1258	
P18		51	1279	51		51	1260	
P19						54	1261	
P20						57	1262	
						60	1264	
						63	1265	
						66	1266	