

Company National Oil Company Lease & Well No. Amstutz #1
 Elevation 2365 Ground Level Formation Mississippi Effective Pay ---- Ft. Ticket No. 4228
 Date 2/19/80 Sec. 35 Twp. 20S Range 25W County Ness State Kansas

Test Approved by R. B. Gebbart Western Representative Roger Lisenby

Formation Test No. 1 Interval Tested from 4415 ft. to 4451 ft. Total Depth 4451 ft.
 Packer Depth 4410 ft. Size 6 3/4 in. Packer Depth 4415 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) 4444 ft. Recorder Number 969 Cap. 4200
 Bottom Recorder Depth (Outside) 4447 ft. Recorder Number 1051 Cap. 4250
 Below Straddle Recorder Depth -- ft. Recorder Number - Cap. -

Drilling Contractor H-30, Rig #2 Drill Collar Length 186 I. D. 2 1/2 in.
 Mud Type starch Viscosity 43 Weight Pipe Length -- I. D. - in.
 Weight 9.9 Water Loss 9.4 cc. Drill Pipe Length 4198 I. D. 3.8 in.
 Chlorides 32,000 P.P.M. Test Tool Length 31 ft. Tool Size 4 3/4 in.
 Jars: Make WTC Serial Number 410 Anchor Length 36 ft. Size 5 1/2 in.
 Did Well Flow? NO Reversed Out NO Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
 Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 XH in.

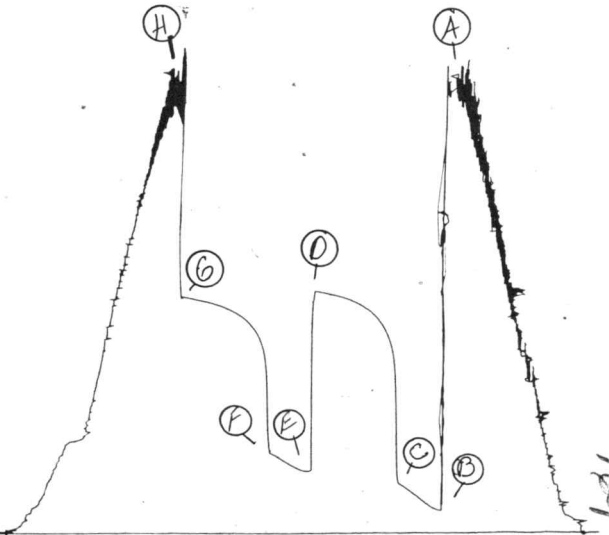
Blow: Weak blow; died in ten minutes on first opening. No blow on second opening.

Recovered 10 ft. of mud
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks:

Time Set Packer(s) 3:55 ~~AM~~ P.M. Time Started Off Bottom 5:57 ~~AM~~ P.M. Maximum Temperature 118°
 Initial Hydrostatic Pressure (A) 2361 P.S.I.
 Initial Flow Period Minutes 30 (B) 61 P.S.I. to (C) 49 P.S.I.
 Initial Closed In Period Minutes 30 (D) 74 P.S.I.
 Final Flow Period Minutes 30 (E) 57 P.S.I. to (F) 48 P.S.I.
 Final Closed In Period Minutes 30 (G) 55 P.S.I.
 Final Hydrostatic Pressure (H) 2340 P.S.I.

Plot # 4229
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Formation Test No. 2 Interval Tested from 4451 ft. to 4466 ft. Total Depth 4466 ft.
 Packer Depth 4446 ft. Size 6 3/4 in. Packer Depth 4451 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) 4459 ft. Recorder Number 969 Cap. 4200
 Bottom Recorder Depth (Outside) 4462 ft. Recorder Number 1051 Cap. 4250
 Below Straddle Recorder Depth -- ft. Recorder Number - Cap. -

Drilling Contractor H-30, Inc. Drlg. Rig #2 Drill Collar Length 186 I. D. 2 1/4 in.
 Mud Type starch Viscosity 42 Weight Pipe Length - I. D. - in.
 Weight 10.0 Water Loss 10.4 cc. Drill Pipe Length 4234 I. D. - in.
 Chlorides 33,000 P.P.M. Test Tool Length 31 ft. Tool Size 4 3/4 in.
 Jars: Make WTC Serial Number 410 Anchor Length 15 ft. Size 5 1/2 in.
 Did Well Flow? No Reversed Out NO Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
 Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 XH in.

Blow: Strong blow first opening; strong blow second opening.

Recovered 840 ft. of water with few oil spots.
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks:

Time Set Packer(s) 8:10 ~~P.M.~~ ^{A.M.} Time Started Off Bottom 11:12 ~~P.M.~~ ^{A.M.} Maximum Temperature 127°
 Initial Hydrostatic Pressure (A) 2371 P.S.I.
 Initial Flow Period Minutes 30 (B) 122 P.S.I. to (C) 260 P.S.I.
 Initial Closed In Period Minutes 60 (D) 1278 P.S.I.
 Final Flow Period Minutes 30 (E) 326 P.S.I. to (F) 420 P.S.I.
 Final Closed In Period Minutes 60 (G) 1247 P.S.I.
 Final Hydrostatic Pressure (H) 2348 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 2/20/80 Recorder No. 969 Capacity 4200 Test Ticket No. 4229
 Location 4459 Ft. 127
 Clock No. ----- Elevation 2365 Ground Level Well Temperature °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2371	P.S.I.	8:10A	M
B First Initial Flow Pressure	122	P.S.I.	30	30
C First Final Flow Pressure	260	P.S.I.	60	60
D Initial Closed-in Pressure	1278	P.S.I.	30	30
E Second Initial Flow Pressure	326	P.S.I.	60	60
F Second Final Flow Pressure	420	P.S.I.		
G Final Closed-in Pressure	1247	P.S.I.		
H Final Hydrostatic Mud	2348	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.
	6		20		6		20	
	of 5	mins. and a	of 3	mins. and a	of 5	mins. and a	of 3	mins. and a
	final inc. of 0	Min.	final inc. of 0	Min.	final inc. of 0	Min.	final inc. of 0	Min.
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	
P 1	0	122	0	260	0	326	0	420
P 2	5	129	3	908	5	328	3	848
P 3	10	154	6	1016	10	340	6	994
P 4	15	177	9	1068	15	359	9	1051
P 5	20	206	12	1104	20	380	12	1082
P 6	25	231	15	1133	25	402	15	1109
P 7	30	260	18	1156	30	420	18	1125
P 8			21	1175			21	1142
P 9			24	1189			24	1157
P10			27	1203			27	1172
P11			30	1215			30	1187
P12			33	1223			33	1194
P13			36	1231			36	1202
P14			39	1239			39	1208
P15			42	1246			42	1215
P16			45	1254			45	1222
P17			48	1259			48	1228
P18			51	1263			51	1233
P19			54	1268			54	1239
P20			57	1274			57	1243
			60	1278			60	1247

PL# 4228
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