

ORIGINAL
15-109-20654

CONFIDENTIAL

DIAMOND TESTING

P. O. Box 157

HOISINGTON, KANSAS 67544

(316) 653-7550

Page 1 of 7 Pages

NOV 11

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Company Slawson Exploration Company, Inc. Lease & Well No. Dumler No. 1-6Elevation 3166 KB Formation Lansing/Kansas City "J" Effective Pay 5 Ft. Ticket No. 1327Date 8-26-97 Sec. 6 Twp. 11S Range 33W County Logan State KansasTest Approved By Kim B. Shoemaker Diamond Representative Roger D. FriedlyFormation Test No. 1 Interval Tested from 4,295 ft. to 4,334 ft. Total Depth 4,334 ft.Packer Depth 4,290 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.Packer Depth 4,295 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.Depth of Selective Zone Set -- ft.Top Recorder Depth (Inside) 4,283 ft. Recorder Number 13386 Cap. 3,875 psiBottom Recorder Depth (Outside) 4,331 ft. Recorder Number 13556 Cap. 5,475 psiBelow Straddle Recorder Depth -- ft. Recorder Number -- Cap. -- psiDrilling Contractor Murfin Drlg Co., Inc. - Rig 8 Drill Collar Length 531 ft. I.D. 2 1/4 in.Mud Type Chemical Viscosity 46 Weight Pipe Length -- ft. I.D. -- in.Weight 9.2 Water Loss 15.2 cc. Drill Pipe Length 3,740 ft. I.D. 3 1/2 in.Chlorides 10,000 P.P.M. Test Tool Length 24 ft. Tool Size 3 1/2 - IF in.Jars: Make Bowen Serial Number Not Run Anchor Length 39 ft. Size 4 1/2 - FH in.Did Well Flow? No Reversed Out No Surface Choke Size 1 in. Bottom Choke Size 5/8 in.Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 - XH in.Blow: 1st Open: Weak, 1/8 in., blow increasing. Off bottom of bucket in 22 mins. Weak, 1/2 in., blow back during shut-in.2nd Open: Weak, 1/2 in., blow increasing. Off bottom of bucket in 21 mins. Fair, 1 in., blow back during shut-in.Recovered 310 ft. of gas in pipeRecovered 310 ft. of clean oil = 1.5252 bbls. (Gravity: 36 @ 60°)Recovered 129 ft. of slightly oil cut gassy mud = .63468 bbls. (Grind out: 8%-oil; 14%-gas; 78%-mud)Recovered 439 ft. of TOTAL FLUID = 2.15988 bbls.Recovered -- ft. of

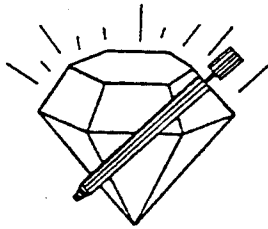
RELEASED

Remarks Tool Sample Grind out: 46%-oil; 54%-mud.

OCT 06 2000

FROM CONFIDENTIAL

Time Set Packer(s) 4:47 ~~XXM.~~ P.M. Time Started Off Bottom 8:17 ~~XXM.~~ P.M. Maximum Temperature 122°Initial Hydrostatic Pressure (A) 2117 P.S.I.Initial Flow Period Minutes 30 (B) 85 P.S.I. to (C) 134 P.S.I.Initial Closed In Period Minutes 45 (D) 1298 P.S.I.Final Flow Period Minutes 45 (E) 164 P.S.I. to (F) 205 P.S.I.Final Closed In Period Minutes 90 (G) 1301 P.S.I.Final Hydrostatic Pressure (H) 2104 P.S.I.



DIAMOND TESTING
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Page 2 of 7 Pages

FLUID SAMPLE DATA

Company Slawson Exploration Company, Inc.
Lease & Well No. Dumler No. 1-6
Date 8-26-97 Sec. 6 Twp. 11 S Range 33 W
Formation Test No. 1 Interval Tested From 4,295 ft. to 4,334 ft. Total Depth 4,334 ft.
Formation Lansing/Kansas City "J"

		<u>MUD PIT</u>	<u>RECOVERY</u>
Viscosity		<u>46</u> CP	<u>--</u> CP
	Pit	Airy (Flow line)	
Weight	<u>9.2</u>	<u>8.5</u>	<u>--</u>
Water Loss		<u>15.2</u> CC	<u>--</u> CC
PH Factor		<u>10.5</u>	<u>--</u>

	<u>RESISTIVITY</u>	<u>CHLORIDE CONTENT</u>
Recovery Water	<u>--</u> @ <u>--</u> °F. <u>--</u> ppm	
Recovery Mud	<u>--</u> @ <u>--</u> °F. <u>--</u> ppm	
Recovery Mud Filtrate	<u>--</u> @ <u>--</u> °F. <u>--</u> ppm	
Mud Pit Sample	<u>.36</u> @ <u>104</u> °F. <u>10,500</u> ppm	
Mud Pit Sample Filtrate	<u>.36</u> @ <u>106</u> °F. <u>10,200</u> ppm	

Sample Taken By Roger D. Friedly

Witness By Kim B. Shoemaker

Remarks Pit filtrate triton dish chlorides were 10,000 Ppm.

DIAMOND TESTING
CALCULATION OF FORMATION CHARACTERISTICS
FROM DST DATA

Page 3 of 7 Pages

FOR:	SLAWSON EXPLORATION CO., INC.		
LEASE:	DUMLER # 1-6	DST #1	
LOCATION:	6-11S-33W	FORMATION:	LKC J
COUNTY:	LOGAN, KS	ELEVATION:	3166 KB
GAUGE DEPTH:	4331	DATUM:	-1165

*****TEST PARAMETERS*****

TEST INTERVAL:	4295 - 4334	POROSITY FRACTION:	.12
INTERVAL TESTED:	39	VISCOSITY:	3.5 CP
EST PAY:	5	OIL GRAVITY:	36 @60 DEG.
TIME INTERVAL:	30 - 45 - 45 - 93		
INITIAL FLOW PRESS:	84.7- 117.5	TOTAL FT RECOVERY:	439 FT
FINAL FLOW PRESS:	165.3- 199.5	D.C. CAPACITY:	0.00492
		D.C. LENGTH:	531 FT
SHUT-IN PRESS(I-F):	1292.4-1293.7	W.P. CAPACITY:	0.00000
		W.P. LENGTH:	0 FT
BOTTOM HOLE TEMP.:	122 DEG F	D.P. CAPACITY:	0.01422
HOLE SIZE:	7.875	BBLs RECOVERY:	2.15783

*****EXTRAPOLATED PRESSURE*****

EXTRAPOLATED INITIAL SHUT-IN PRESSURE (PSI): 1335
SLOPE (PSI-CYCLE): 315 POINTS USED: 8

EXTRAPOLATED FINAL SHUT-IN PRESSURE (PSI): 1338
SLOPE (PSI-CYCLE): 228 , POINTS USED: 11

*****CALCULATIONS*****

PRODUCTION POTENTIAL (B/D)	:	41.43
TRANSMISSIBILITY (MD-FT/CP)	:	29.55
FLOW CAPACITY (MD.-FT.)	:	103.41
EFFECTIVE PERMEABILITY (MD)	:	20.68
PRODUCTIVITY INDEX (B/D/PSI)	:	0.0365
DAMAGE RATIO	:	0.914
SKIN FACTOR (S)	:	1.0
PRESSURE DROP DUE TO SKIN (PSI)	:	195.9
APPROXIMATE RADIUS OF INVESTIGATION (FT)	:	39.4
DRAWDOWN FACTOR (%)	:	-0.225
POTENTIOMETRIC SURFACE (FT)	:	1937.8

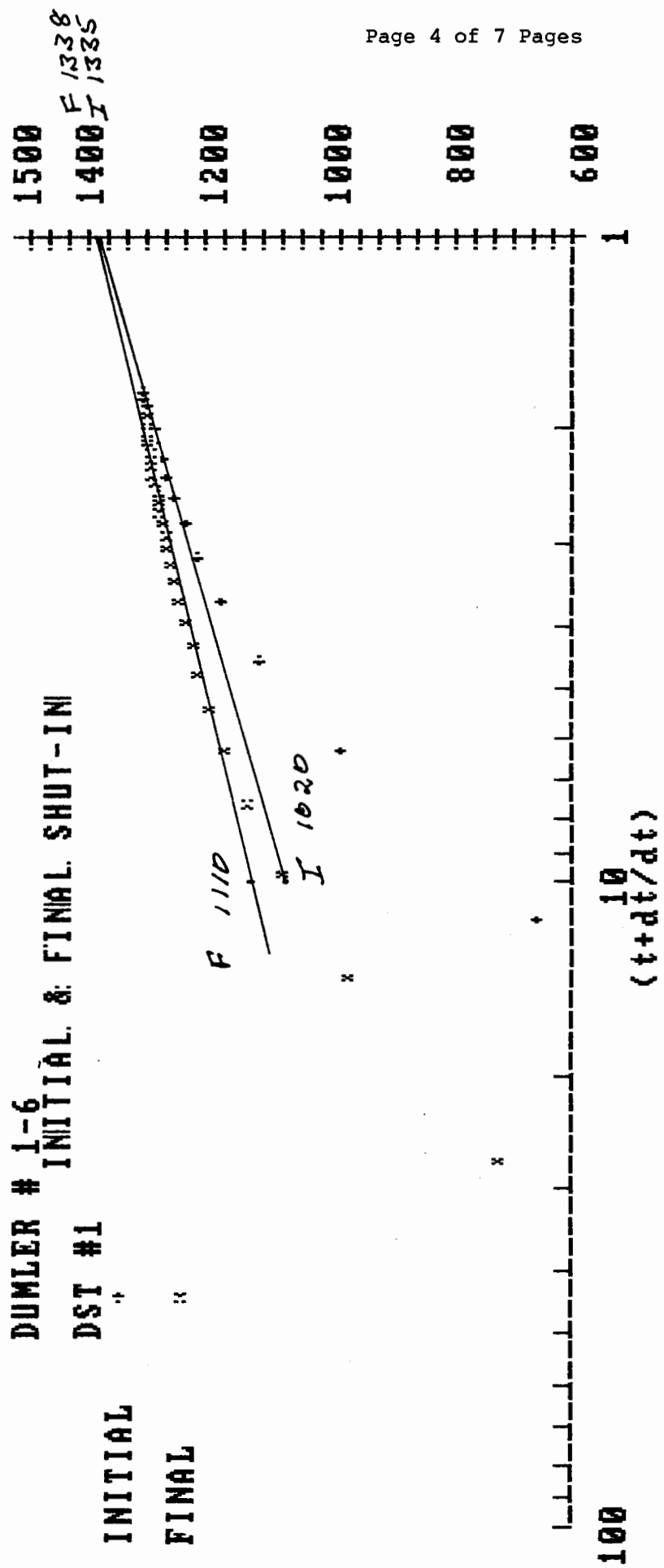
08-26-1997 SLAWSON EXPLORATION CO., INC.

**DUMLER # 1-6
INITIAL. & FINAL. SHUT-IN**

DST #1

INITIAL

FINAL



LEASE:DUMLER # 1-6
DST #:1
INITIAL SHUT-IN

=====

RECORDER NO: 13556 DEPTH: 4331 FT.
INITIAL FLOW TIME: T = 30 MIN.

DT(MIN)	T+DT/DT	LOG((T+DT)/DT)	PRESS(PSIG)
=====			
3	11.0000	1.041	651.6
6	6.0000	0.778	972.7
9	4.3333	0.637	1105.2
12	3.5000	0.544	1168.0
15	3.0000	0.477	1202.2
18	2.6667	0.426	1222.7
21	2.4286	0.385	1240.4
24	2.2500	0.352	1252.7
27	2.1111	0.325	1260.9
30	2.0000	0.301	1269.1
33	1.9091	0.281	1276.0
36	1.8333	0.263	1281.4
39	1.7692	0.248	1285.5
42	1.7143	0.234	1288.3
45	1.6667	0.222	1292.4

LEASE:DUMLER # 1-6

DST #:1

Page 6 of 7 Pages

FINAL SHUT-IN

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RECORDER NO: 13556 DEPTH: 4331 FT.
TOTAL FLOW TIME: T = 75 MIN.

DT(MIN)	T+DT/DT	LOG((T+DT)/DT)	PRESS(PSIG)
3	26.0000	1.415	719.9
6	13.5000	1.130	965.8
9	9.3333	0.970	1069.7
12	7.2500	0.860	1131.1
15	6.0000	0.778	1165.3
18	5.1667	0.713	1191.3
21	4.5714	0.660	1206.3
24	4.1250	0.615	1217.2
27	3.7778	0.577	1229.5
30	3.5000	0.544	1237.7
33	3.2727	0.515	1245.9
36	3.0833	0.489	1252.7
39	2.9231	0.466	1258.2
42	2.7857	0.445	1262.3
45	2.6667	0.426	1265.0
48	2.5625	0.409	1269.1
51	2.4706	0.393	1271.9
54	2.3889	0.378	1274.6
57	2.3158	0.365	1278.7
60	2.2500	0.352	1281.4
63	2.1905	0.341	1282.8
66	2.1364	0.330	1284.2
69	2.0870	0.320	1285.5
72	2.0417	0.310	1286.9
75	2.0000	0.301	1288.3
78	1.9615	0.293	1289.6
81	1.9259	0.285	1291.0
84	1.8929	0.277	1292.4
87	1.8621	0.270	1293.7
90	1.8333	0.263	1293.7
93	1.8065	0.257	1293.7

08-26-1997

SLAWSON EXPLORATION CO., INC.
LEASE: DUMLER # 1-6
INITIAL FLOW
DST #:1

Page 7 of 7 Pages

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RECORDER NO: 13556 DEPTH: 4331 FT.
INITIAL FLOW TIME: T = 30 MIN.

DT(MIN)	PRESSURE(PSIG)
=====	
0	84.7
3	72.4
6	75.1
9	77.9
12	82.0
15	86.1
18	92.9
21	99.7
24	105.2
27	110.7
30	117.5

08-26-1997

SLAWSON EXPLORATION CO., INC.
LEASE: DUMLER # 1-6
FINAL FLOW
DST #:1

=====

RECORDER NO: 13556 DEPTH: 4331 FT.
FINAL FLOW TIME: T = 45 MIN.

DT(MIN)	PRESSURE(PSIG)
=====	
0	165.3
3	150.3
6	150.3
9	150.3
12	153.0
15	154.4
18	159.8
21	163.9
24	168.0
27	173.5
30	179.0
33	183.1
36	187.2
39	191.3
42	195.4
45	199.5

DST #1 OUTSIDE 1355L
 C/LCK 64131 LKJ

4295-4334
 Loc 4331

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This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	2117	2115
(B) First Initial Flow Pressure.....	85	85
(C) First Final Flow Pressure	134	118
(D) Initial Closed-in Pressure	1298	1292
(E) Second Initial Flow Pressure	164	165
(F) Second Final Flow Pressure.....	205	200
(G) Final Closed-in Pressure.....	1301	1294
(H) Final Hydrostatic Mud	2104	2104