



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No 13010

P. O. BOX 1599 WICHITA, KANSAS 67201
PHONE (316) 262-5861

Elevation 1262 R.B Formation Ucola Eff. Pay Ft.

District Pratt Date 11/29/87 Customer Order No.

COMPANY NAME Independent Investors, Inc

ADDRESS Rt 4 Box 178 Sebetha, Ks 66534

LEASE AND WELL NO. Scoby #1-87 COUNTY Brown STATE Ks Sec. 31 Twp. 2S Rge. 15E

Mail Invoice To Same Co. Name Scoby #1-87 Address Diser No. Copies Requested 5

Mail Charts To Same Scoby #1-87 Address Diser No. Copies Requested 5

Formation Test No. 1 Interval Tested From 3780 ft. to 3800 ft. Total Depth 3800 ft.

Packer Depth 3775 ft. Size 6 7/8 in. Packer Depth - ft. Size - in.

Packer Depth 3780 ft. Size 6 7/8 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3790 ft. Recorder Number 13552 Cap. 4050

Bottom Recorder Depth (Outside) 3793 ft. Recorder Number 13267 Cap. 4050

Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor R+W Rig #4 Drill Collar Length 480 I. D. 2 1/4 in.

Mud Type Chemical Viscosity 42 Weight Pipe Length - I. D. - in.

Weight 9.3 Water Loss 10.0 cc. Drill Pipe Length 3271 I. D. 3.8 in.

Chlorides 2150 P.P.M. Test Tool Length 29 ft. Tool Size 5 1/2 OD in.

Jars: Make WTC Serial Number 420 Anchor Length 20 ft. Size 5 1/2 OD in.

Did Well Flow? No Reversed Out No Surface Choke Size 3 1/4 in. Bottom Choke Size 3 1/4 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 FH in.

Blow: Strong blow throughout flow periods

Recovered 300 ft. of Muddy Water

Recovered 1830 ft. of Salt Water

Recovered - ft. of

Recovered - ft. of

Recovered - ft. of

Recovered - ft. of

Chlorides 24,000 P.P.M. Sample Jars used - Remarks: 1980

Time On Location 12:00 A.M. Time Pick Up Tool 3:30 P.M. Time Off Location - A.M.

Time Set Packer(s) 5:20 A.M. Time Started Off Bottom 7:20 P.M. Maximum Temperature 122 degrees

Initial Hydrostatic Pressure (A) 1872 P.S.I.

Initial Flow Period Minutes 30 (B) 132 P.S.I. to (C) 710 P.S.I.

Initial Closed In Period Minutes 45 (D) 1419 P.S.I.

Final Flow Period Minutes 15 (E) 751 P.S.I. to (F) 902 P.S.I.

Final Closed In Period Minutes 30 (G) 1419 P.S.I.

Final Hydrostatic Pressure (H) 1852 P.S.I.

COMPANY TERMS

Western Testing Co., Inc. shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained directly or indirectly through the use of its equipment, of its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made.

All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By [Signature] Signature of Customer or his authorized representative

Western Representative Jim Winder Thank You

FIELD INVOICE

Table with 2 columns: Item, Amount. Items include Open Hole Test, Misrun, Straddle Test, Jars, Selective Zone, Safety Joint, Standby, Evaluation, Extra Packer, Circ. Sub., Mileage, Fluid Sampler, Extra Charts, Insurance, Telecopier, and TOTAL.

Pressure Data

Date: 11-29-87 Test Ticket No. 13010
 Recorder No. 13552 Capacity 4050 Location _____ Ft. _____
 Clock No. _____ Elevation _____ Well Temperature 122 °F

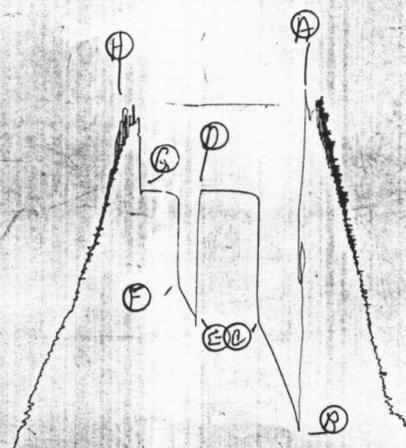
Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1895</u> P.S.I.	<u>5:20</u> A	<u>M</u>
B First Initial Flow Pressure	<u>154</u> P.S.I.	<u>30</u> Mins	<u>30</u> Mins.
C First Final Flow Pressure	<u>717</u> P.S.I.	<u>48</u> Mins	<u>48</u> Mins.
D Initial Closed-in Pressure	<u>1423</u> P.S.I.	<u>15</u> Mins	<u>15</u> Mins.
E Second Initial Flow Pressure	<u>757</u> P.S.I.	<u>30</u> Mins	<u>30</u> Mins.
F Second Final Flow Pressure	<u>911</u> P.S.I.		
G Final Closed-in Pressure	<u>1421</u> P.S.I.		
H Final Hydrostatic Mud	<u>1852</u> P.S.I.		

PRESSURE BREAKDOWN

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		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	<u>154</u>	0	<u>717</u>	0	<u>757</u>	0	<u>911</u>
P 2 5	<u>299</u>	3	<u>837</u>	5	<u>809</u>	3	<u>1374</u>
P 3 10	<u>385</u>	6	<u>1316</u>	10	<u>870</u>	6	<u>1399</u>
P 4 15	<u>473</u>	9	<u>1400</u>	15	<u>911</u>	9	<u>1407</u>
P 5 20	<u>516</u>	12	<u>1407</u>	20		12	<u>1413</u>
P 6 25	<u>628</u>	15	<u>1412</u>	25		15	<u>1415</u>
P 7 30	<u>717</u>	18	<u>1416</u>	30		18	<u>1418</u>
P 8 35		21	<u>1419</u>	35		21	<u>1420</u>
P 9 40		24	<u>1420</u>	40		24	<u>1421</u>
P10 45		27	<u>1421</u>	45		27	<u>5</u>
P11 50		30	<u>1422</u>	50		30	<u>1421</u>
P12 55		33	<u>1423</u>	55		33	
P13 60		36		60		36	
P14 65		39		65		39	
P15 70		42		70		42	
P16 75		45	<u>1423</u>	75		45	
P17 80		48	<u>1423</u>	80		48	
P18 85		51		85		51	
P19 90		54		90		54	
P20 95		57		95		57	
100		60		100		60	

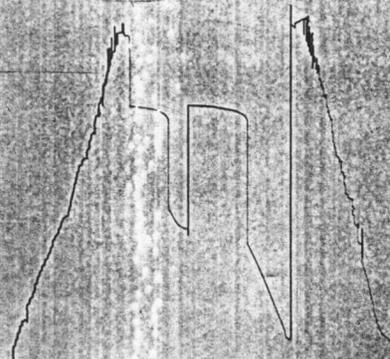
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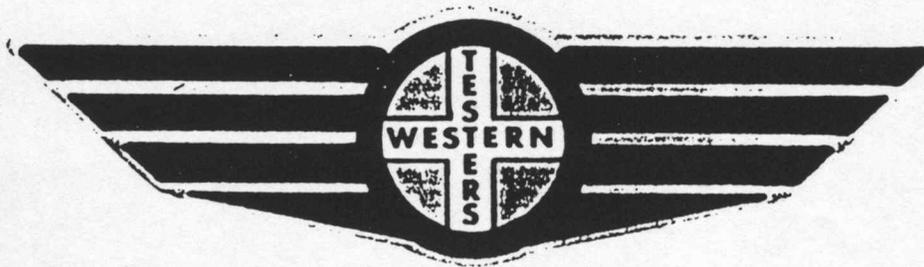


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FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE : 11-29-87 TICKET : 13010
CUSTOMER : INDEPENDENT INVESTORS INC. LEASE : SCOBY
WELL : #1-87 TEST: 1 GEOLOGIST : G. PETERSEN
ELEVATION : 1262 KB FORMATION : VIOLA
SECTION : 31 TOWNSHIP : 2S
RANGE : 15E COUNTY : BROWN STATE : KANSAS
GAUGE SN# : 13552 RANGE : 4050 CLOCK : 12

INTERVAL FROM : 3780 TO : 3800 TOTAL DEPTH : 3800
DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 3775 SIZE : 6.63
PACKER DEPTH : 3780 SIZE : 6.63
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON. : R&W RIG 4
MUD TYPE : CHEMCIAL VISCOSITY : 42
WEIGHT : 9.3 WATER LOSS (CC) : 10.0
CHLORIDES (PPM) : 2100
JARS-MAKE : WTC SERIAL NUMBER : 420
DID WELL FLOW ? : NO REVERSED OUT ? : NO

DRILL COLLAR LENGTH : 480 FT I.D. inch : 2.25
WEIGHT PIPE LENGTH : 0 FT I.D. inch : 0.00
DRILL PIPE LENGTH : 3211 FT I.D. inch : 3.80
TEST TOOL LENGTH : 29 FT TOOL SIZE : 5.50
ANCHOR LENGTH : 20 FT ANCHOR SIZE : 5.50
SURFACE CHOKE SIZE : .75 IN BOTTOM CHOKE SIZE : .75
MAIN HOLE SIZE : 7.875 IN TOOL JOINT SIZE : 4.5 FH

BLOW COMMENT #1 : STRONG BLOW THROUGHOUT BOTH FLOW PERIODS.
BLOW COMMENT #2 :
BLOW COMMENT #3 :
BLOW COMMENT #4 :

RECOVERED : 300 FT OF: MUDDY WATER
RECOVERED : 1830 FT OF: SALT WATER

CHLORIDES: 24000 PPM

Total Barrels Fluid = 25.50
Total Fluid Prod Rate = 816.12 BFPD
Indicated Wtr Rate = 758.65 BWPD

REMARK 1 :
REMARK 2 :
REMARK 3 :
REMARK 4 :

SET PACKER(S) : 5:20 AM

TIME STARTED OFF BOTTOM : 7:20 AM

WELL TEMPERATURE : 122

INITIAL HYDROSTATIC PRESSURE

(A) 1895

INITIAL FLOW PERIOD MIN: 30

(B) 154 PSI TO (C) : 717

INITIAL CLOSED IN PERIOD MIN: 48

(D) 1423

FINAL FLOW PERIOD MIN: 15

(E) 757 PSI TO (F) : 911

FINAL CLOSED IN PERIOD MIN: 30

(G) 1421

FINAL HYDROSTATIC PRESSURE

(H) 1852

WESTERN TESTING CO. INC.
WICHITA - KANSAS

Pressure Transient Report

COMPANY : INDEPENDENT INVESTORS INC.
RIG : BROWN-KANSAS
FIELD : SCOBY
WELL : #1-87
DATE : 11-29-87
GAUGE NO : 13552

OPERATIONAL COMMENTS

COMPANY : INDEPENDENT INVESTORS INC.
 WELL : #1-87
 GAUGE # : 13552
 DATE : 29/11/87

FIELD : SCOPY,
 JOB # : 13010
 DEPTH : 3800
 TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P $P_i - P_{(i-1)}$
1	5:20:0	0.000	154.000	122.00	0.000
2	5:24:59	0.083	299.000	122.00	145.000
3	5:30:0	0.167	385.000	122.00	86.000
4	5:35:0	0.250	473.000	122.00	88.000
5	5:39:59	0.333	561.000	122.00	88.000
6	5:45:0	0.417	638.000	122.00	77.000
7	5:50:0	0.500	717.000	122.00	79.000
8	5:53:0	0.550	837.000	122.00	120.000
9	5:56:0	0.600	1316.000	122.00	479.000
10	5:59:0	0.650	1400.000	122.00	84.000
11	6: 2:0	0.700	1407.000	122.00	7.000
12	6: 5:0	0.750	1412.000	122.00	5.000
13	6: 8:0	0.800	1416.000	122.00	4.000
14	6:11:0	0.850	1419.000	122.00	3.000
15	6:14:0	0.900	1420.000	122.00	1.000
16	6:17:0	0.950	1421.000	122.00	1.000
17	6:20:0	1.000	1422.000	122.00	1.000
18	6:23:0	1.050	1423.000	122.00	1.000
19	6:26:0	1.100	1423.000	122.00	0.000
20	6:29:0	1.150	1423.000	122.00	0.000
21	6:32:0	1.200	1423.000	122.00	0.000
22	6:35:0	1.250	1423.000	122.00	0.000
23	6:38:0	1.300	1423.000	122.00	0.000
24	6:39:0	1.317	757.000	122.00	-666.000
25	6:42:59	1.383	809.000	122.00	52.000
26	6:48:0	1.467	870.000	122.00	61.000
27	6:53:0	1.550	911.000	122.00	41.000
28	6:55:59	1.600	1374.000	122.00	463.000
29	6:59:0	1.650	1399.000	122.00	25.000
30	7: 1:59	1.700	1407.000	122.00	8.000
31	7: 5:0	1.750	1413.000	122.00	6.000
32	7: 8:0	1.800	1415.000	122.00	2.000
33	7:11:0	1.850	1418.000	122.00	3.000
34	7:14:0	1.900	1420.000	122.00	2.000
35	7:17:0	1.950	1421.000	122.00	1.000
36	7:20:0	2.000	1421.000	122.00	0.000
37	7:23:0	2.050	1421.000	122.00	0.000

WESTERN TESTING CO. INC.



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No 13011

P. O. BOX 1599 PHONE (316) 262-5861
WICHITA, KANSAS 67201

Elevation 1262 K.B Formation Simpson Eff. Pay Ft.

District Pratt Date 11/30/87 Customer Order No.

COMPANY NAME Independent Investors Inc

ADDRESS

LEASE AND WELL NO. Scoby #1-87 COUNTY Brown STATE Ks Sec. 31 Twp. 2S Rge. 15E

Mail Invoice To Same Co. Name No. Copies Requested 5

Mail Charts To Same Scoby #1-87 Address Wisner No. Copies Requested 5

Formation Test No. 2 Interval Tested From 3956 ft. to 3986 ft. Total Depth 3986 ft.

Packer Depth 3951 ft. Size 6 7/8 in. Packer Depth - ft. Size - in.

Packer Depth 3956 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3976 ft. Recorder Number 13552 Cap. 4050

Bottom Recorder Depth (Outside) 3979 ft. Recorder Number 13267 Cap. 4050

Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor R+W Rig #4 Drill Collar Length 480 I. D. 2 1/4 in.

Mud Type Chemical Viscosity 41 Weight Pipe Length - I. D. - in.

Weight 9.1 Water Loss 8.0 cc. Drill Pipe Length 3447 I. D. 3.8 in.

Chlorides 3400 P.P.M. Test Tool Length 29 ft. Tool Size 5 1/2 OP in.

Jars: Make WTC Serial Number #20 Anchor Length 30 ft. Size 5 1/2 OP in.

Did Well Flow? No Reversed Out No Surface Choke Size 3 1/4 in. Bottom Choke Size 3 1/4 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 FH in.

Blow: No blow throughout flow period

Recovered 20 ft. of Drilg Mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Chlorides P.P.M. Sample Jars used Remarks: Flushed tool on initial flow

Time On Location 9:30 A.M. Time Pick Up Tool 11:00 A.M. Time Off Location A.M.

Time Set Packer(s) 1:00 A.M. Time Started Off Bottom 1:30 A.M. Maximum Temperature 123.0 P.M.

Initial Hydrostatic Pressure (A) 1872 P.S.I.

Initial Flow Period Minutes 15 (B) 71 P.S.I. to (C) 71 P.S.I.

Initial Closed In Period Minutes 15 (D) 71 P.S.I.

Final Flow Period Minutes - (E) - P.S.I. to (F) - P.S.I.

Final Closed In Period Minutes - (G) - P.S.I.

Final Hydrostatic Pressure (H) 1852 P.S.I.

COMPANY TERMS

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All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By [Signature] Signature of Customer or his authorized representative

Western Representative Jim Wondra Thank You

FIELD INVOICE

Table with 2 columns: Item and Price. Items include Open Hole Test, Misrun, Straddle Test, Jars, Selective Zone, Safety Joint, Standby, Evaluation, Extra Packer, Circ. Sub., Mileage, Fluid Sampler, Extra Charts, Insurance, Telecopier, and TOTAL.

2376

Pressure Data

Date: 11-30-87 Test Ticket No. 13011
 Recorder No. B267 Capacity 4050 Location _____ Ft.
 Block No. _____ Elevation _____ Well Temperature 122 °F

Initial Hydrostatic Mud	<u>1954</u>	P.S.I.	Open Tool	<u>1:00 P</u>	M
First Initial Flow Pressure	<u>129</u>	P.S.I.	First Flow Pressure	<u>15</u>	Mins. <u>15</u> Mins.
First Final Flow Pressure	<u>109</u>	P.S.I.	Initial Closed-in Pressure	<u>15</u>	Mins. <u>15</u> Mins.
Initial Closed-in Pressure	<u>85</u>	P.S.I.	Second Flow Pressure	<u>-</u>	Mins. _____ Mins.
Second Initial Flow Pressure	_____	P.S.I.	Final Closed-in Pressure	<u>-</u>	Mins. _____ Mins.
Second Final Flow Pressure	_____	P.S.I.			
Final Closed-in Pressure	_____	P.S.I.			
Final Hydrostatic Mud	<u>1934</u>	P.S.I.			

PRESSURE BREAKDOWN

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		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	<u>129</u>	0	<u>109</u>	0		0	
P 2 5	<u>105</u>	3	<u>102</u>	5		3	
P 3 10	<u>89 FT</u>	6	<u>94</u>	10		6	
P 4 15	<u>109</u>	9	<u>89</u>	15		9	
P 5 20		12	<u>86</u>	20		12	
P 6 25		15	<u>85</u>	25		15	
P 7 30		18		30		18	
P 8 35		21		35		21	
P 9 40		24		40		24	
P10 45		27		45		27	
P11 50		30		50		30	
P12 55		33		55		33	
P13 60		36		60		36	
P14 65		39		65		39	
P15 70		42		70		42	
P16 75		45		75		45	
P17 80		48		80		48	
P18 85		51		85		51	
P19 90		54		90		54	
P20 95		57		95		57	
100		60		100		60	

FKT 13011

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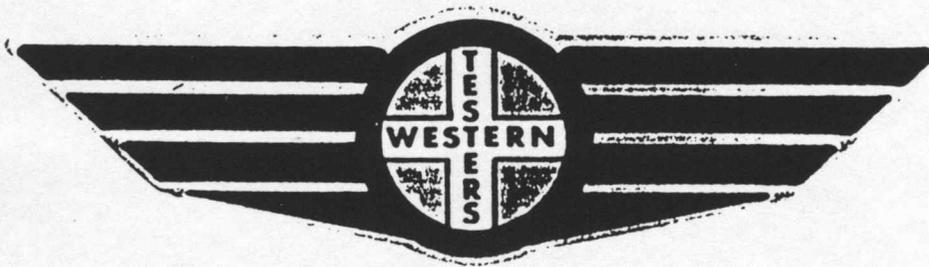


FKT 13011

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FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE : 11-30-87
CUSTOMER : INDEPENDENT INVESTORS INC.
WELL : #1-87 TEST: 2
ELEVATION : 1262 KB
SECTION : 31
RANGE : 15E COUNTY : BROWN
GAUGE SN# : 13267 RANGE : 4050
TICKET : 13011
LEASE : SCOBY
GEOLOGIST : G. PETERSEN
FORMATION : SIMPSON
TOWNSHIP : 2S
STATE : KANSAS
CLOCK : 12

INTERVAL FROM : 3956 TO : 3986 TOTAL DEPTH : 3986
DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 3951 SIZE : 6.63
PACKER DEPTH : 3956 SIZE : 6.63
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON. : R&W RIG # 4
MUD TYPE : CHEMICAL VISCOSITY : 41
WEIGHT : 9.1 WATER LOSS (CC) : 8.0
CHLORIDES (PPM) : 3400
JARS-MAKE : WTC SERIAL NUMBER : 420
DID WELL FLOW ? : NO REVERSED OUT ? : NO

DRILL COLLAR LENGTH : 480 FT I.D. inch : 2.25
WEIGHT PIPE LENGTH : 0 FT I.D. inch : 0.00
DRILL PIPE LENGTH : 3447 FT I.D. inch : 3.80
TEST TOOL LENGTH : 29 FT TOOL SIZE : 5.50
ANCHOR LENGTH : 30 FT ANCHOR SIZE : 5.50
SURFACE CHOKE SIZE : .75 IN BOTTOM CHOKE SIZE : .75
MAIN HOLE SIZE : 7.875 IN TOOL JOINT SIZE : 4.5 FH

BLOW COMMENT #1 : NO BLOW THROUGHOUT FLOW PERIOD.
BLOW COMMENT #2 :
BLOW COMMENT #3 :
BLOW COMMENT #4 :

RECOVERED : 20 FT OF: DRILLING MUD

Total Barrels Fluid = 0.10
Total Fluid Prod Rate = 9.44 BFPD
Indicated Wtr Rate = 0.94 BWPD

REMARK 1 : FLUSHED TOOL.

REMARK 2 :

REMARK 3 :

REMARK 4 :

SET PACKER(S) : 1:00 PM

TIME STARTED OFF BOTTOM : 1:30 PM

WELL TEMPERATURE : 123

INITIAL HYDROSTATIC PRESSURE

(A) 1956

INITIAL FLOW PERIOD MIN: 15

(B) 129 PSI TO (C) : 109

INITIAL CLOSED IN PERIOD MIN: 15

(D) 85

FINAL FLOW PERIOD MIN: 0

(E) 0 PSI TO (F) : 0

FINAL CLOSED IN PERIOD MIN: 0

(G) 0

FINAL HYDROSTATIC PRESSURE

(H) 1934

WESTERN TESTING CO. INC.
WICHITA - KANSAS

Pressure Transient Report

COMPANY : INDEPENDENT INVESTORS INC.
RIG : BROWN-KANSAS
FIELD : SCOBY
WELL : #1-87
DATE : 11-30-87
GAUGE NO : 13267

OPERATIONAL COMMENTS

FLUSHED TOOL.

COMPANY : INDEPENDENT INVESTORS INC.
WELL : #1-87
GAUGE # : 13267
DATE : 30/11/87

FIELD : SCOPY
JOB # : 13011
DEPTH : 3986
TEST : FLUSHED TOOL.

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
1	1: 0: 0	0.000	129.000	123.00	0.000
2	1: 4: 59	0.083	105.000	123.00	-24.000
3	1: 10: 0	0.167	89.000	123.00	-16.000
4	1: 15: 0	0.250	109.000	123.00	20.000
5	1: 18: 0	0.300	102.000	123.00	-7.000
6	1: 21: 0	0.350	94.000	123.00	-8.000
7	1: 24: 0	0.400	89.000	123.00	-5.000
8	1: 27: 0	0.450	86.000	123.00	-3.000
9	1: 30: 0	0.500	85.000	123.00	-1.000

WESTERN TESTING CO. INC.