



WESTERN TESTING CO., INC.,
FORMATION TESTING

TICKET N^o 11411

P. O. BOX 1599 PHONE (316) 262-5861

Elevation 1360 GL Formation Viola Eff. Pay ☒ Ft.

WICHITA, KANSAS 67201

District B

Augusta Ks

Date

7-12-87

Customer Order No. ☒

COMPANY NAME

Incline Reserves Inc.

ADDRESS

1607 S.W 37th ST. TOPEKA KS 66611

LEASE AND WELL NO.

Hill #2

COUNTY NEMAH

STATE KS

Sec. 3

Twp. 5s

Rge. 13E

Mail Invoice To

Same as above

No. Copies Requested

Co. Name

Address

Mail Charts To

Same as above

No. Copies Requested

Address

Formation Test No. #1

Interval Tested From 3660

ft. to 3679

ft. Total Depth 3679

ft.

Packer Depth

3655

ft.

Size 6 5/8

in.

Packer Depth

ft.

Size

in.

Packer Depth

3660

ft.

Size 6 5/8

in.

Packer Depth

ft.

Size

in.

Depth of Selective Zone Set —

Top Recorder Depth (Inside)

3670

ft.

Recorder Number

13762

Cap.

3925

Bottom Recorder Depth (Outside)

3673

ft.

Recorder Number

2608

Cap.

4175

Below Straddle Recorder Depth

—

ft.

Recorder Number

—

Cap.

—

Drilling Contractor

Glacier DRIG Rig #1

Drill Collar Length

274

I. D.

2.25

in.

Mud Type

Chem-Gel

Viscosity

42

Weight Pipe Length

—

I. D.

—

in.

Weight

9.1

Water Loss

12.0

cc.

Drill Pipe Length

3358

I. D.

3.34

in.

Chlorides

2800

P.P.M.

Test Tool Length

28

ft.

Tool Size

5 3/8

in.

Jars: Make

WTC

Serial Number

412

Anchor Length

19

ft.

Size

5 3/8

in.

Did Well Flow?

NO

Reversed Out

Surface Choke Size

3/4

in.

Bottom Choke Size

3/4

in.

Main Hole Size

7 7/8

in.

Tool Joint Size

4" FH

in.

Blow: 1st opening, Weak Surge, Flush Tool IN 10min Remain Dead Thru-OUT

2nd opening, NO BLOW THRU-OUT.

Recovered ft. of

25'

Clean OIL Gravity

33 @ 70°

Recovered 30' ft. of

OIL Cut Mud

50% OIL

50% Mud

Recovered 55' ft. of

Total Recovery

Chlorides

P.P.M. Sample Jars used 2

Remarks:

200 miles one way from Augusta Kansas

Time On Location

7-12-87 1:30

A.M. P.M.

Time Pick Up Tool

7-12-87 11:00

A.M. P.M.

Time Off Location

A.M. P.M.

Time Set Packer(s)

3:10

A.M. P.M.

Time Started Off Bottom

4:00

A.M. P.M.

Maximum Temperature

115°

Initial Hydrostatic Pressure

(A)

1790

P.S.I.

Initial Flow Period

Minutes

20

(B)

66

P.S.I. to (C)

38

P.S.I.

Initial Closed In Period

Minutes

15

(D)

1243

P.S.I.

Final Flow Period

Minutes

15

(E)

85

P.S.I. to (F)

57

P.S.I.

Final Closed In Period

Minutes

0

(G)

1770

P.S.I.

Final Hydrostatic Pressure

(H)

1770

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 of Customer or his authorized representative

Western Representative

Ronnie Mitchell

7-12-87

Thank you! / 325

FIELD INVOICE

Open Hole Test ☒ \$ 450
Misrun \$ —
Straddle Test \$ —
Jars ☒ \$ 150
Selective Zone \$ —
Safety Joint ☒ \$ 32.50
Standby \$ —
Evaluation \$ —
Extra Packer \$ —
Circ. Sub. \$ —
Mileage \$ —
Fluid Sampler \$ —
Extra Charts \$ —
Insurance \$ —
Telecopier \$ —
TOTAL \$ —

WESTERN TESTING CO., INC.

Pressure Data

7-12-87

Date

Recorder No. 13762

Capacity 2925

Test Ticket No. 11411

Location

Clock No. Elevation

Well Temperature 115 °F

Point	Pressure	
A Initial Hydrostatic Mud	1819	P.S.I.
B First Initial Flow Pressure	67	P.S.I.
C First Final Flow Pressure	31	P.S.I.
D Initial Closed-in Pressure	1244	P.S.I.
E Second Initial Flow Pressure	27	P.S.I.
F Second Final Flow Pressure	54	P.S.I.
G Final Closed-in Pressure		P.S.I.
H Final Hydrostatic Mud	1786	P.S.I.

	Time Given	Time Computed
Open Tool	3:10 A	M
First Flow Pressure	20	Mins. 20 Mins.
Initial Closed-in Pressure	15	Mins. 15 Mins.
Second Flow Pressure	15	Mins. 15 Mins.
Final Closed-in Pressure	0	Mins. Mins.

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: Inc.		Breakdown: Inc.		Breakdown: Inc.		Breakdown: Inc.	
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	67	0	31	0	77	0	
P 2 5	52	3	871	5	63	3	
P 3 10	47 FT	6	1201	10	56	6	
P 4 15	31	9	1223	15	54	9	
P 5 20	31	12	1236	20		12	
P 6 25	31	15	1244	25		15	
P 7 30		18		30		18	
P 8 35		21		35		21	
P 9 40		24		40		24	
P 10 45		27		45		27	
P 11 50		30		50		30	
P 12 55		33		55		33	
P 13 60		36		60		36	
P 14 65		39		65		39	
P 15 70		42		70		42	
P 16 75		45		75		45	
P 17 80		48		80		48	
P 18 85		51		85		51	
P 19 90		54		90		54	
P 20 95		57		95		57	
100		60		100		60	

TK 11411

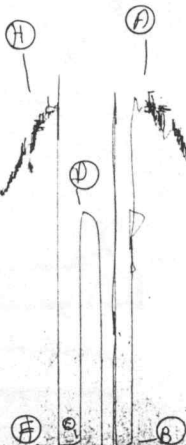
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2608
DST#1



KT 11411

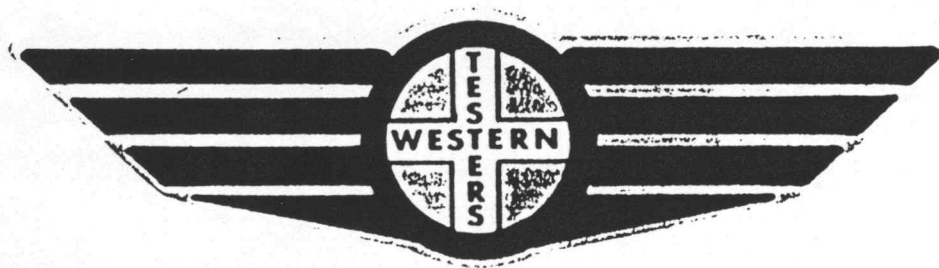
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DST#1

13762

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

SUBSURFACE PRESSURE SURVEY

DATE : 7-12-87 TICKET : 11411
CUSTOMER : INCLINE RESERVES INC. LEASE : HILL
WELL : #2 TEST: 1 GEOLOGIST : G. OWEN
ELEVATION : 1360 GL FORMATION : VIOLA
SECTION : 3 TOWNSHIP : 5S
RANGE : 13E COUNTY : NEMAHA STATE : KANSAS
GAUGE SN# : 13762 RANGE : 3925 CLOCK : 12

INTERVAL FROM : 3660 TO : 3679 TOTAL DEPTH : 3679
DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 3655 SIZE : 6.63
PACKER DEPTH : 3660 SIZE : 6.63
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON. : GLACIER DRLG. RIG #1
MUD TYPE : CHEM-GEL VISCOSITY : 42
WEIGHT : 9.1 WATER LOSS (CC) : 12.0
CHLORIDES (PPM) : 2800
JARS-MAKE : WTC SERIAL NUMBER : 412
DID WELL FLOW ? : NO REVERSED OUT ? :

DRILL COLLAR LENGTH : 274 FT I.D. inch : 2.25
WEIGHT PIPE LENGTH : 0 FT I.D. inch : 0.00
DRILL PIPE LENGTH : 3358 FT I.D. inch : 3.34
TEST TOOL LENGTH : 28 FT TOOL SIZE : 5.50
ANCHOR LENGTH : 19 FT ANCHOR SIZE : 5.50
SURFACE CHOKE SIZE : .75 IN BOTTOM CHOKE SIZE : .75
MAIN HOLE SIZE : 7.875 IN TOOL JOINT SIZE : 4 FH

BLOW COMMENT #1 : INITIAL FLOW-WEAK SURGE & DIED-FLUSHED TOOL IN 10
MINUTES-REMAINS DEAD.
BLOW COMMENT #2 : FINAL FLOW- NO BLOW.
BLOW COMMENT #3 :
BLOW COMMENT #4 :

RECOVERED : 25 FT OF: CLEAN OIL
GRAVITY 33 @ 70 DEG.F.
RECOVERED : 30 FT OF: OIL CUT MUD
50% OIL-50% MUD

Total Barrels Fluid = 0.27
Total Fluid Prod Rate = 11.13 BFPD
Indicated Oil Rate = 8.09 BOPD
Indicated Wtr Rate = 0.30 BWPD
Corrected Oil Rate = 7.06 BOPD
Corrected Wtr Rate = 0.26 BWPD

REMARK 1 : FLUSHED TOOL INITIAL FLOW
REMARK 2 :
REMARK 3 :
REMARK 4 :

SET PACKER(S) : 3:10 AM

TIME STARTED OFF BOTTOM : 4:00 AM

WELL TEMPERATURE : 115

INITIAL HYDROSTATIC PRESSURE

(A) 1819

INITIAL FLOW PERIOD MIN: 20

(B) 67 PSI TO (C) : 31

INITIAL CLOSED IN PERIOD MIN: 15

(D) 1244

FINAL FLOW PERIOD MIN: 15

(E) 77 PSI TO (F) : 54

FINAL CLOSED IN PERIOD MIN: 0

(G) 0

FINAL HYDROSTATIC PRESSURE

(H) 1786

WESTERN TESTING CO. INC.
WICHITA - KANSAS

Pressure Transient Report

COMPANY : INCLINE RESERVES INC.
RIG : NEMAHA-KANSAS
FIELD : HILL
WELL : #2
DATE : 7-12-87
GAUGE NO : 13762

OPERATIONAL COMMENTS

FLUSHED TOOL INITIAL FLOW

COMPANY : INCLINE RESERVES INC.
WELL : #2
GAUGE # : 13762
DATE : 12/ 7/87

FIELD : HILL
JOB # : 11411
DEPTH : 3679
TEST : FLUSHED TOOL INITIAL FLOW

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
1	3:10: 0	0.000	67.000	115.00	0.000
2	3:14:59	0.083	52.000	115.00	-15.000
3	3:20: 0	0.167	47.000	115.00	-5.000
4	3:25: 0	0.250	31.000	115.00	-16.000
5	3:29:59	0.333	31.000	115.00	0.000
6	3:32:59	0.383	871.000	115.00	840.000
7	3:35:59	0.433	1201.000	115.00	330.000
8	3:38:59	0.483	1223.000	115.00	22.000
9	3:41:59	0.533	1236.000	115.00	13.000
10	3:44:59	0.583	1244.000	115.00	8.000
11	3:46: 0	0.600	77.000	115.00	-1167.000
12	3:49:59	0.667	63.000	115.00	-14.000
13	3:55: 0	0.750	56.000	115.00	-7.000
14	3:59:59	0.833	54.000	115.00	-2.000

WESTERN TESTING CO. INC.



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET N^o 11412

P. O. BOX 1599 PHONE (316) 262-5861

Elevation 1360GL Formation Viola Eff. Pay Ft.

WICHITA, KANSAS 67201

District 13 Augusta KS Date 7-13-87 Customer Order No. ✓

COMPANY NAME Incline Reserves Inc

ADDRESS 1607 SW 37th St. Topeka KS 66611

LEASE AND WELL NO. Hill #2 COUNTY Nemaha STATE KS Sec. 3 Twp. 5 Rge. 13E

Mail Invoice To Same as above Hill #2 No. Copies Requested 5

Co. Name Address No. Copies Requested 5

Mail Charts To Same as above Address No. Copies Requested 5

Formation Test No. #2 Interval Tested From 3660 ft. to 3682 ft. Total Depth 3682 ft.

Packer Depth 3655 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Packer Depth 3660 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 3670 ft. Recorder Number 13762 Cap. 3925

Bottom Recorder Depth (Outside) 3673 ft. Recorder Number 2608 Cap. 4175

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

Drilling Contractor Glacier Delta Rig #1 Drill Collar Length 274 I. D. 2.25 in.

Mud Type Chem Gel Viscosity 52 Weight Pipe Length - I. D. - in.

Weight 9.3 Water Loss 10.0 cc. Drill Pipe Length 3358 I. D. 3.34 in.

Chlorides 2400 P.P.M. Test Tool Length 28 ft. Tool Size 5 1/2 in.

Jars: Make WTC Serial Number 412 Anchor Length 22 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" FH in.

Blow: 1st opening - Weak Blow Building To Strong Blow off Bottom of Bucket in 1 hour.

2nd NONE -

Recovered - ft. of

Recovered 280 ft. of Clean Oil Gravity 33 @ 70° 304 Q

Recovered 60 ft. of Oil Cut Mud 60% Mud 40% Oil 3.6W

Recovered - ft. of

Recovered 340 ft. of TOTAL Recovery Extrapolated

Chlorides - P.P.M. Sample Jars used 8 Remarks: Would Like To Have Test

AS SOON AS POSSIBLE. Call John Garrett @ 214-969-7001 (89%)

7-12-87 1:30 A.M. 7-13-87 3:15 A.M. Time Off Location 3:30 A.M.

Time On Location 1:30 P.M. Time Pick Up Tool 3:15 P.M. Time Off Location 3:30 P.M.

7-13-87 6:00 A.M. 7-13-87 9:30 A.M. Maximum Temperature 115

Time Set Packer(s) 6:00 P.M. Time Started Off Bottom 9:30 P.M. Maximum Temperature 115

Initial Hydrostatic Pressure (A) 1790 P.S.I.

Initial Flow Period Minutes 150 (B) 19 P.S.I. to (C) 143 P.S.I.

Initial Closed In Period Minutes 60 (D) 1252 P.S.I.

Final Flow Period Minutes 0 (E) 0 P.S.I. to (F) 0 P.S.I.

Final Closed In Period Minutes 0 (G) 0 P.S.I.

Final Hydrostatic Pressure (H) 1780 P.S.I.

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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 of Customer or his authorized representative

Western Representative Ronnie Mitchell

Thank you!

FIELD INVOICE

Open Hole Test \$ 450

Misrun \$

Straddle Test \$ 150

Jars \$ 3250

Selective Zone \$

Safety Joint \$

Standby \$

Evaluation \$

Extra Packer \$

Circ. Sub. \$

Mileage \$

Fluid Sampler \$

Extra Charts \$

Insurance \$

Telecopier \$

TOTAL \$

WESTERN TESTING CO., INC.

Pressure Data

Date 7-13-87 Recorder No. 13762 Capacity 3925 Test Ticket No. 11412
 Clock No. _____ Elevation _____ Location _____ Ft. _____
 Well Temperature 115 °F
 Point Pressure Time Given Time Computed
 A Initial Hydrostatic Mud 1819 P.S.I. Open Tool 6:00 P M 9:30 P
 B First Initial Flow Pressure 5 P.S.I. First Flow Pressure 150 Mins. 145 Mins.
 C First Final Flow Pressure 141 P.S.I. Initial Closed-in Pressure 60 Mins. _____ Mins.
 D Initial Closed-in Pressure 1263 P.S.I. Second Flow Pressure _____ Mins. _____ Mins.
 E Second Initial Flow Pressure _____ P.S.I. Final Closed-in Pressure _____ Mins. _____ Mins.
 F Second Final Flow Pressure _____ P.S.I.
 G Final Closed-in Pressure _____ P.S.I.
 H Final Hydrostatic Mud 1788 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>5</u>	0		0		0	
P 2 5	<u>13</u>	3	<u>996</u>	5		3	
P 3 10	<u>20</u>	6	<u>1123</u>	10		6	
P 4 15	<u>24</u>	9	<u>1167</u>	15		9	
P 5 20	<u>28</u>	12	<u>1182</u>	20		12	
P 6 25	<u>34</u>	15	<u>1206</u>	25		15	
P 7 30	<u>40</u>	18	<u>1217</u>	30		18	
P 8 35	<u>44</u>	21	<u>1225</u>	35		21	
P 9 40	<u>49</u>	24	<u>1233</u>	40		24	
P10 45	<u>55</u>	27	<u>1238</u>	45		27	
P11 50	<u>59</u>	30	<u>1242</u>	50		30	
P12 55	<u>63</u>	33	<u>1246</u>	55		33	
P13 60	<u>67</u>	36	<u>1249</u>	60		36	
P14 65	<u>71</u>	39	<u>1252</u>	65		39	
P15 70	<u>77</u>	42	<u>1254</u>	70		42	
P16 75	<u>83</u>	45	<u>1256</u>	75		45	
P17 80	<u>88</u>	48	<u>1258</u>	80		48	
P18 85	<u>93</u>	51	<u>1259</u>	85		51	
P19 90	<u>97</u>	54	<u>1260</u>	90		54	
P20 95	<u>101</u>	57	<u>1261</u>	95		57	
100	<u>106</u>	60	<u>1262</u>	100		60	
		<u>103</u>	<u>1263</u>				

WESTERN TESTING CO., INC.

Pressure Data

Date _____ Test Ticket No. _____

Recorder No. _____ Capacity _____ Location _____ Ft.

Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud _____ P.S.I.	Open Tool _____ M _____		
B First Initial Flow Pressure _____ P.S.I.	First Flow Pressure _____ Mins. _____ Mins.		
C First Final Flow Pressure _____ P.S.I.	Initial Closed-in Pressure _____ Mins. _____ Mins.		
D Initial Closed-in Pressure _____ P.S.I.	Second Flow Pressure _____ Mins. _____ Mins.		
E Second Initial Flow Pressure _____ P.S.I.	Final Closed-in Pressure _____ Mins. _____ Mins.		
F Second Final Flow Pressure _____ P.S.I.			
G Final Closed-in Pressure _____ P.S.I.			
H Final Hydrostatic Mud _____ 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 <u>105</u>	<u>111</u>	63		<u>105</u>		63	
P 2 <u>110</u>	<u>115</u>	66		<u>110</u>		66	
P 3 <u>115</u>	<u>119</u>	69		<u>115</u>		69	
P 4 <u>120</u>	<u>123</u>	72		<u>120</u>		72	
P 5 <u>125</u>	<u>127</u>	75		<u>125</u>		75	
P 6 <u>130</u>	<u>130</u>	78		<u>130</u>		78	
P 7 <u>135</u>	<u>133</u>	81		<u>135</u>		81	
P 8 <u>140</u>	<u>137</u>	84		<u>140</u>		84	
P 9 <u>145</u>	<u>141</u>	87		<u>145</u>		87	
P10 <u>150</u>		90		<u>150</u>		90	
P11 <u>155</u>		93		<u>155</u>		93	
P12 <u>160</u>		96		<u>160</u>		96	
P13 <u>165</u>		99		<u>165</u>		99	
P14 <u>170</u>		102		<u>170</u>		102	
P15 <u>175</u>		105		<u>175</u>		105	
P16 <u>180</u>		108		<u>180</u>		108	
P17 <u>185</u>		111		<u>185</u>		111	
P18 <u>190</u>		114		<u>190</u>		114	
P19 <u>195</u>		117		<u>195</u>		117	
P20 <u>200</u>		120		<u>200</u>		120	

COMPANY: INCLINE RESERVES INC.
FIELD: HILL

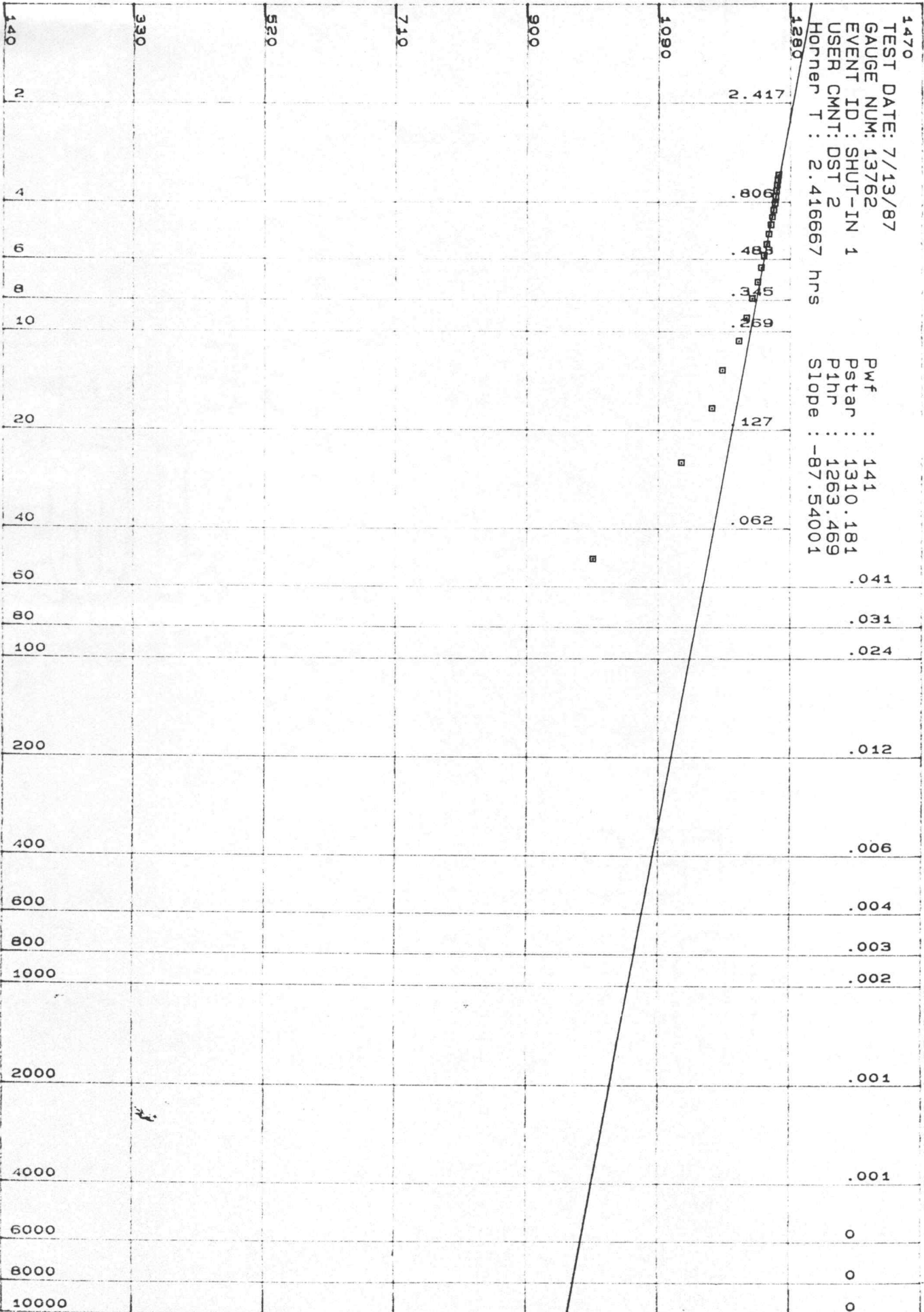
WELL # : 2
LOCATION: NEMAHA-KANSAS

PROCESSED: 07-14-1987
ENGINEER: LARRY KING

TEST DATE: 7/13/87
GAUGE NUM: 13762
EVENT ID : SHUT-IN 1
USER CMNT: DST 2
Horner T : 2.416667 hrs

Pwf : 141
Pstar : 1310.181
P1hr : 1263.469
Slope : -87.54001

Pressure , Psig



Job No. 11412
WESTERN TESTING CO. INC.

Horner Ratio, (T+dt)/dt

RES-TRAN

WESTERN TESTING CO. INC.
WICHITA - KANSAS

WELL TEST ANALYSIS REPORT
HORNER METHOD
SHUTIN No. 1

COMPANY. INCLINE RESERVES INC.
DATE 7/13/87
FIELD. HILL
WELL 2
AREA NEMAHA-KANSAS
JOB NUMBER . . . 11412
GAUGE NUMBER . . 13762
GAUGE DEPTH. . . 3682
ZONE TESTED. . . 3660-3682

PHASE : OIL FUNCTION : PRESSURE

=====I=N=P=U=T====D=A=T=A====S=U=M=M=A=R=Y=====

THICKNESS.	H	5.0000E+00	Feet
POROSITY	POR	1.2000E-01	Frac
VISCOSITY.	U	2.4000E+00	Cp
FORMATION VOLUME FACTOR.	B	1.0002E+00	Rb/stb
TOTAL COMPRESSIBILITY.	Ct	2.2250E-05	Psi ⁻¹
WELLBORE RADIUS.	Rw	5.2000E-01	Feet
DRAINAGE RADIUS.	Re	1.5000E+03	Feet
RESERVOIR TEMPERATURE.	T	1.1500E+02	Deg F
GRAVITY OF FLUID	G	3.3000E+01	
PVT EVALUATION PRESSURE.	P	0.0000E+00	Psig
PRESSURE AT SHUT-IN.	Pwf	1.4100E+02	Psig
FINAL RECORDED PRESSURE.	Ps	1.2630E+03	Psig
PRODUCTION RATE.	Q	2.0480E+01	Bbl/day
TOTAL FLOW TIME.	T	2.4170E+00	Hours

=====R=E=G=R=E=S=S=I=O=N====R=E=S=U=L=T=S=====

LEAST SQUARE RESULTS OVER THE INTERVAL :
FROM 6 TO 3.5

SLOPE OF THE LINE. 8.7542E+01 psi/cycle
FALSE PRESSURE, PSTAR. 1.3102E+03 psi
PRESSURE AT 1 HOUR 1.2635E+03 psi

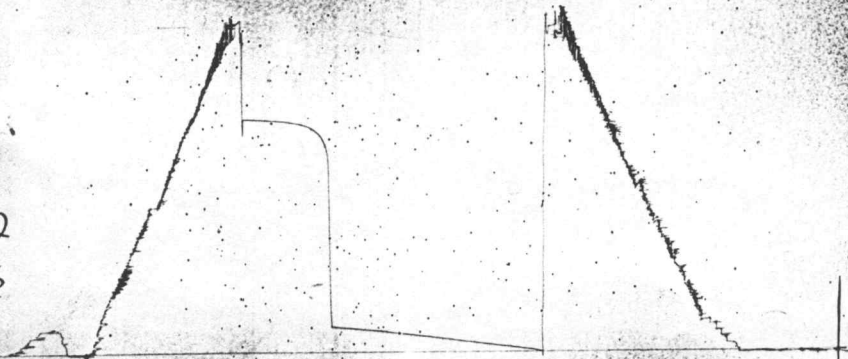
=====A=N=A=L=Y=S=I=S====R=E=S=U=L=T=S=====

TRANSMISSIBILITY.	Kh/u	3.8049E+01	md-ft/cp
FLOW CAPACITY.	Kh	9.1317E+01	md-ft
PERMEABILITY to PHASE.	K	1.8263E+01	md
DAMAGE RATIO	Dr	3.1942E+00	
RADIUS OF INVESTIGATION.	Rinv	8.5244E+01	ft
SKIN FACTOR.	S	1.0568E+01	
AVERAGE PRESSURE	Pbar	1.3101E+03	psig
DIMENSIONLESS TIME	Tda	2.5728E-04	
MATTHEWS-BRONS-HAZEBROEK	PDmbh	3.2331E-03	

Kit # 11412

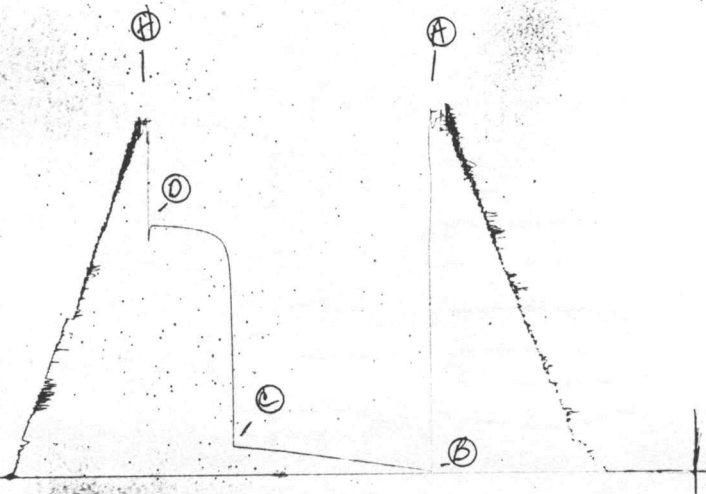
0

DIST 2
2608

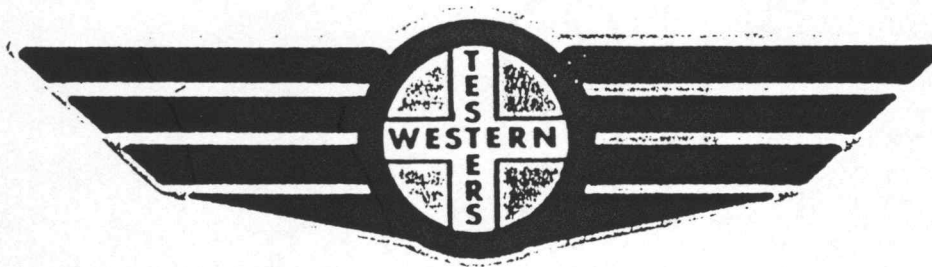


SK # 11412
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DST2
13762



FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY INCLINE RESERVES, INC. LEASE & WELL NO. HILL #2 SEC. 3 TWP. 5S RGE. 13E TEST NO. 2 DATE 7/13/87

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE	:	7/13/87	TICKET	:	11412
CUSTOMER	:	INCLINE RESERVES INC.	LEASE	:	HILL
WELL	:	2	TEST:	:	2
ELEVATION	:	1360 GL	GEOLOGIST	:	OWENS
SECTION	:	3	FORMATION	:	VIOLA
RANGE	:	13E	TOWNSHIP	:	5S
Gauge SN#	:	13762	STATE	:	KANSAS
		COUNTY :	RANGE :		CLOCK :
			3925		12

INTERVAL FROM	:	3660	TO	:	3682	TOTAL DEPTH	:	3682
DEPTH OF SELECTIVE ZONE	:							
PACKER DEPTH	:	3655	SIZE	:	6.63			
PACKER DEPTH	:	3660	SIZE	:	6.63			
PACKER DEPTH	:		SIZE	:				
PACKER DEPTH	:		SIZE	:				

DRILLING CON.	:	GLACIER RIG 1			
MUD TYPE	:	CHEMICAL GEL	VISCOSITY	:	52
WEIGHT	:	9.3	WATER LOSS (CC)	:	10.0
CHLORIDES (PPM)	:	2400			
JARS-MAKE	:	WTC	SERIAL NUMBER	:	412
DID WELL FLOW ?	:	NO	REVERSED OUT ?	:	NO

DRILL COLLAR LENGTH	:	274	FT	I.D. inch	:	2.25
WEIGHT PIPE LENGTH	:	0	FT	I.D. inch	:	0.00
DRILL PIPE LENGTH	:	3358	FT	I.D. inch	:	3.34
TEST TOOL LENGTH	:	28	FT	TOOL SIZE	:	5.50
ANCHOR LENGTH	:	22	FT	ANCHOR SIZE	:	5.50
SURFACE CHOKE SIZE	:	.75	IN	BOTTOM CHOKE SIZE	:	.75
MAIN HOLE SIZE	:	7.875	IN	TOOL JOINT SIZE	:	4FH

BLOW COMMENT #1 : INITIAL FLOW PERIOD WEAK BLOW BUILDING TO
BLOW COMMENT #2 : STRONG BLOW OFF BOTTOM OF BUCKET IN 1 HOUR.
BLOW COMMENT #3 : FINAL FLOW PERIOD - NONE.
BLOW COMMENT #4 :

RECOVERED : 280 FT OF: CLEAN OIL GRAVITY 33 @ 70 DEGREES F
RECOVERED : 60 FT OF: OIL CUT MUD- 60% MUD; 40% OIL

Total Barrels Fluid = 2.06
Total Fluid Prod Rate = 20.48 BFPD
Indicated Oil Rate = 18.31 BOPD
Indicated Wtr Rate = 0.22 BWPD
Corrected Oil Rate = 22.00 BOPD
Corrected Wtr Rate = 0.26 BWPD

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

SET PACKER(S) : 6:00 PM

TIME STARTED OFF BOTTOM : 9:30 PM

WELL TEMPERATURE : 115

INITIAL HYDROSTATIC PRESSURE

INITIAL FLOW PERIOD MIN: 145 (A) 1819

INITIAL CLOSED IN PERIOD MIN: 63 (B) 5 PSI TO (C) : 141

FINAL FLOW PERIOD MIN: 0 (D) 1263

FINAL CLOSED IN PERIOD MIN: 0 (E) 0 PSI TO (F) : 0

FINAL HYDROSTATIC PRESSURE (G) 0

(H) 1788

WESTERN TESTING CO. INC.
WICHITA - KANSAS

Pressure Transient Report

COMPANY : INCLINE RESERVES INC.
RIG : NEMAHA-KANSAS
FIELD : HILL
WELL : 2
DATE : 7/13/87
GAUGE NO : 13762

OPERATIONAL COMMENTS

COMPANY : INCLINE RESERVES INC.
WELL : 2
GAUGE # : 13762
DATE : 13/ 7/87

FIELD : HILL
JOB # : 11412
DEPTH : 3682
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
1	6: 0: 0	0.000	5.000	115.00	0.000
2	6: 4:59	0.083	13.000	115.00	8.000
3	6:10: 0	0.167	20.000	115.00	7.000
4	6:15: 0	0.250	24.000	115.00	4.000
5	6:19:59	0.333	28.000	115.00	4.000
6	6:25: 0	0.417	34.000	115.00	6.000
7	6:30: 0	0.500	40.000	115.00	6.000
8	6:34:59	0.583	44.000	115.00	4.000
9	6:40: 0	0.667	49.000	115.00	5.000
10	6:45: 0	0.750	55.000	115.00	6.000
11	6:49:59	0.833	59.000	115.00	4.000
12	6:55: 0	0.917	63.000	115.00	4.000
13	7: 0: 0	1.000	67.000	115.00	4.000
14	7: 4:59	1.083	71.000	115.00	4.000
15	7:10: 0	1.167	77.000	115.00	6.000
16	7:15: 0	1.250	83.000	115.00	6.000
17	7:19:59	1.333	88.000	115.00	5.000
18	7:25: 0	1.417	93.000	115.00	5.000
19	7:30: 0	1.500	97.000	115.00	4.000
20	7:34:59	1.583	101.000	115.00	4.000
21	7:40: 0	1.667	106.000	115.00	5.000
22	7:45: 0	1.750	111.000	115.00	5.000
23	7:49:59	1.833	115.000	115.00	4.000
24	7:55: 0	1.917	119.000	115.00	4.000
25	8: 0: 0	2.000	123.000	115.00	4.000
26	8: 4:59	2.083	127.000	115.00	4.000
27	8:10: 0	2.167	130.000	115.00	3.000
28	8:15: 0	2.250	133.000	115.00	3.000
29	8:19:59	2.333	137.000	115.00	4.000
30	8:25: 0	2.417	141.000	115.00	4.000
31	8:28: 0	2.467	996.000	115.00	855.000
32	8:31: 0	2.517	1123.000	115.00	127.000
33	8:34: 0	2.567	1167.000	115.00	44.000
34	8:37: 0	2.617	1182.000	115.00	15.000
35	8:40: 0	2.667	1206.000	115.00	24.000
36	8:43: 0	2.717	1217.000	115.00	11.000
37	8:46: 0	2.767	1225.000	115.00	8.000
38	8:49: 0	2.817	1233.000	115.00	8.000
39	8:52: 0	2.867	1238.000	115.00	5.000
40	8:55: 0	2.917	1242.000	115.00	4.000
41	8:58: 0	2.967	1246.000	115.00	4.000
42	9: 1: 0	3.017	1249.000	115.00	3.000
43	9: 4: 0	3.067	1252.000	115.00	3.000
44	9: 7: 0	3.117	1254.000	115.00	2.000
45	9:10: 0	3.167	1256.000	115.00	2.000
46	9:13: 0	3.217	1258.000	115.00	2.000
47	9:16: 0	3.267	1259.000	115.00	1.000
48	9:19: 0	3.317	1260.000	115.00	1.000
49	9:22: 0	3.367	1261.000	115.00	1.000
50	9:25: 0	3.417	1262.000	115.00	1.000
51	9:28: 0	3.467	1263.000	115.00	1.000