

Computer Inventoried

2-34-30w

15-119-20865 TRILOBITE TESTING, L.L.C. ORIGINAL

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

AUG 24

5-4-93

CONFIDENTIAL 14/93

Well Name NOVINGER SOUTH WELL #1 Test No. 1
 Company GIANT EXPLORATION PRODUCTION CO Zone CONCIL GROVE
 Address PO BOX 2810 FARMINGTON NM 87499 Elevation 2676
 Co. Rep./Geo. DAVID D CLARK Cont. MURFIN #22 Est. Ft. of Pay 8
 Location: Sec. 2 Twp. 34S Rge. 30W Co. MEADE State CO

Interval Tested 3162-3191 Drill Pipe Size 4.5" XH
 Anchor Length 29 Wt. Pipe I.D. - 2.7 Ft. Run _____
 Top Packer Depth 3157 Drill Collar - 2.25 Ft. Run 593
 Bottom Packer Depth 3162 Mud Wt. 8.9 lb/Gal.
 Total Depth 3191 Viscosity 37 Filtrate 16.8

Tool Open @ 5:15 PM Initial Blow BOTTOM OF BUCKET AS TOOL OPENED
GAS TO SURFACE IN 4 MINUTES

Final Blow BOTTOM BUCKET AS TOOL OPENED

AUG 24

Recovery - Total Feet 70 ~~CONFIDENTIAL~~ Flush Tool? NO

Rec. 70 Feet of GAS CUT DRILLING MUD **RELEASED**
 Rec. _____ Feet of _____ **SEP 6 1994**
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____ **FROM CONFIDENTIAL**
 Rec. _____ Feet of _____

BHT 102 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
 RW _____ °F Chlorides _____ ppm Recovery Chlorides 7500 ppm System

(A) Initial Hydrostatic Mud 1479.1 PSI AK1 Recorder No. 13850 Range 4325

(B) First Initial Flow Pressure 111.1 PSI @ (depth) 3166 w / Clock No. 27585

(C) First Final Flow Pressure 171.1 PSI AK1 Recorder No. 13851 Range 4425

(D) Initial Shut-in Pressure 814.5 PSI @ (depth) 3188 w / Clock No. 14389

(E) Second Initial Flow Pressure 181.1 PSI AK1 Recorder No. _____ Range _____

(F) Second Final Flow Pressure 185.5 PSI @ (depth) _____ w / Clock No. _____

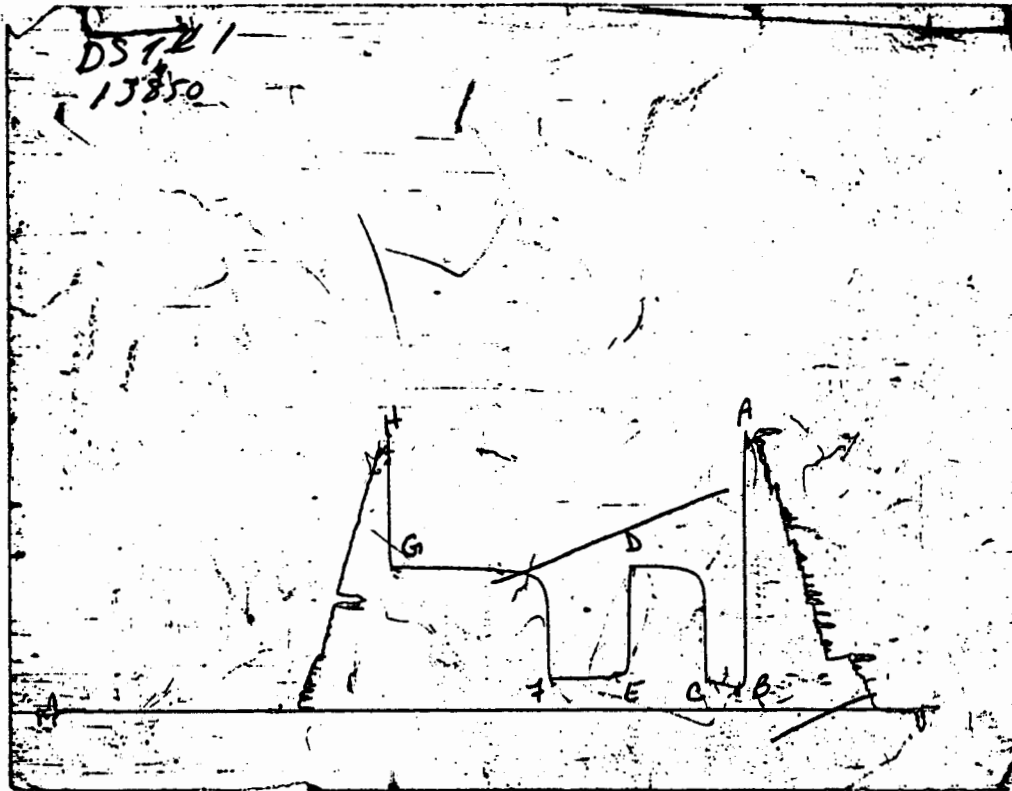
(G) Final Shut-in Pressure 811.1 PSI Initial Opening 30 Final Flow 60

(H) Final Hydrostatic Mud 1446.7 PSI Initial Shut-in 60 Final Shut-in 120

Our Representative ROBERT COLLINS

CHART PAGE

ORIGINAL



KCC

AUG 2 4

CONFIDENTIAL

RELEASED

SEP 6 1994

FROM CONFIDENTIAL

This is an actual photograph of recorder chart

KCC

AUG 2 4

CONFIDENTIAL

FIELD
READING

OFFICE
READING

(A) INITIAL HYDROSTATIC MUD	1475	1479.1
(B) FIRST INITIAL FLOW PRESSURE	100	111.1
(C) FIRST FINAL FLOW PRESSURE	166	171.1
(D) INITIAL CLOSED-IN PRESSURE	816	814.5
(E) SECOND INITIAL FLOW PRESSURE	177	181.1
(F) SECOND FINAL FLOW PRESSURE	177	185.5
(G) FINAL CLOSED-IN PRESSURE	816	811.1
(H) FINAL HYDROSTATIC MUD	1442	1446.7

RECEIVED
CONSERVATION COMMISSION

AUG 3 11 1993

CONSERVATION DIVISION
Wichita, Kansas

GAS VOLUME REPORT

ORIGINAL ~~KCC~~

GIANT EXPLORATION PRODUCTION CO

KCC

AUG 2 4

NOVINGER SOUTH WELL #1

AUG 2 4

CONFIDENTIAL

DST #

1

CONFIDENTIAL

MIN	WATER	ORIFICE	MCF/D	MIN	PSIG	ORIFICE	MCF/D
10	46	1.5	473000	10	5	1.5	863000
20	3 PSI	1.5	654000	20	5	1.5	863000
30	4 PSI	1.5	764000	30	5	1.5	863000
				40	5	1.5	863000
				50	5	1.5	863000
				60	5	1.5	863000

RELEASED

SEP 6 1994

FROM CONFIDENTIAL

RECEIVED
STATE COMMISSION
AUG 30 1994
COURT DIVISION
Wichita, Kansas

Remarks: GAS TO SURFACE IN 4 MINUTES GAS WILL BURN

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data ORIGINAL

CONFIDENTIAL

Well Name NOVINGER SOUTH WELL #1 Test No. 2 Date 5/7/93
Company GIANT EXPLORATION PRODUCTION CO Zone TORONTO
Address PO BOX 2810 FARMINGTON NM 87499 Elevation 2676
Co. Rep./Geo. DAVID D CLARK Cont. MURFIN #22 Est. Ft. of Pay _____
Location: Sec. 5 Twp. 34S Rge. 30W Co. MEADE State CO

Interval Tested	<u>4474-4500</u>	Drill Pipe Size	<u>4.5" XH</u>
Anchor Length	<u>26</u>	Wt. Pipe I.D. - 2.7 Ft. Run	_____
Top Packer Depth	<u>4469-4474</u>	Drill Collar - 2.25 Ft. Run	<u>320</u>
Bottom Packer Depth	<u>4500</u>	Mud Wt.	<u>9.0</u> lb/Gal.
Total Depth	<u>4770</u>	Viscosity	<u>48</u>
		Filtrate	<u>7.2</u>

Tool Open @ 8:00 PM Initial Blow 1" BLOW - BUILT TO BOTTOM OF BUCKET IN 9 MINUTES
THEN LOST PACKER SEAT.

Final Blow MISRUN

Recovery - Total Feet _____

Flush Tool? NO

RELEASED

Rec. _____	Feet of _____	SEP 6 1994 FROM CONFIDENTIAL
Rec. _____	Feet of _____	
Rec. _____	Feet of _____	
Rec. _____	Feet of _____	

BHT 119 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 3000 ppm System

(A) Initial Hydrostatic Mud 2143.6 PSI AK1 Recorder No. 13850 Range 4325

(B) First Initial Flow Pressure 39.1 PSI @ (depth) 4478 w / Clock No. 27585

(C) First Final Flow Pressure 39.1 PSI AK1 Recorder No. 13851 Range 4425

(D) Initial Shut-in Pressure _____ @ (depth) 4492 w / Clock No. 14389

(E) Second Initial Flow Pressure _____ PSI AK1 Recorder No. 1055 Range 4500

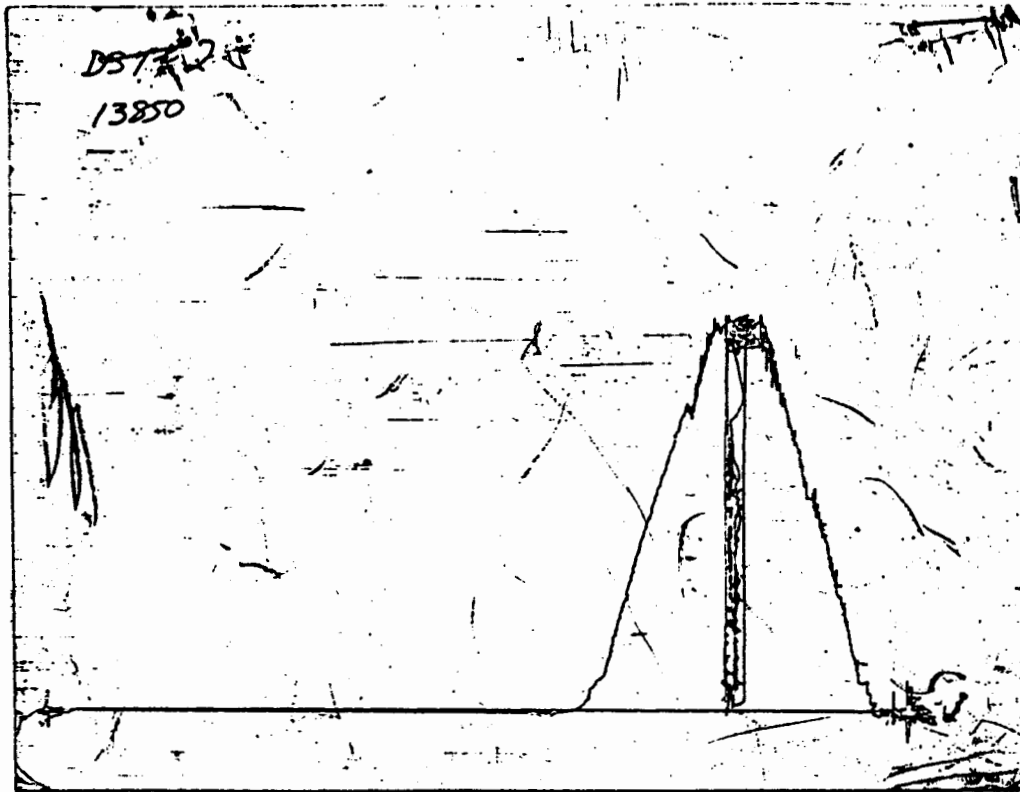
(F) Second Final Flow Pressure _____ PSI @ (depth) 4767 w / Clock No. 28941

(G) Final Shut-in Pressure _____ PSI Initial Opening _____ Final Flow _____

(H) Final Hydrostatic Mud 2126.3 PSI Initial Shut-in _____ Final Shut-in _____

Our Representative TOM HORACEK

CHART PAGE



KCC
AUG 24
CONFIDENTIAL

ORIGINAL

RELEASED

SEP 6 1994

FROM CONFIDENTIAL

This is an actual photograph of recorder chart

FIELD
READING

OFFICE
READING

(A) INITIAL HYDROSTATIC MUD	2140	2143.6
(B) FIRST INITIAL FLOW PRESSURE	33	39.1
(C) FIRST FINAL FLOW PRESSURE	33	39.1
(D) INITIAL CLOSED-IN PRESSURE		
(E) SECOND INITIAL FLOW PRESSURE		
(F) SECOND FINAL FLOW PRESSURE		
(G) FINAL CLOSED-IN PRESSURE		
(H) FINAL HYDROSTATIC MUD	2118	2126.3

RECEIVED
STATE COMMISSION

AUG 30 1993

CONSERVATION DIVISION
Wichita, Kansas

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

ORIGINAL

CONFIDENTIAL

AUG 24

Well Name NOVINGER SOUTH WELL #1 Test No. 3 Date 5/7/93
 Company GIANT EXPLORATION PRODUCTION CO Zone TORONTO
 Address PO BOX 2810 FARMINGTON NM 87499 Elevation 2676
 Co. Rep./Geo. DAVID D CLARK Cont. MURFIN #22 Est. Ft. of Pay _____
 Location: Sec. X 2 Twp. 34S Rge. 30W Co. MEADE State CO

Interval Tested	<u>4446-4500</u>	Drill Pipe Size	<u>4.5" XH</u>
Anchor Length	<u>54</u>	Wt. Pipe I.D. - 2.7 Ft. Run	_____
Top Packer Depth	<u>4441-4446</u>	Drill Collar - 2.25 Ft. Run	<u>291</u>
Bottom Packer Depth	<u>4500</u>	Mud Wt.	<u>9.0</u> lb/Gal.
Total Depth	<u>4770</u>	Viscosity	<u>48</u>
		Filtrate	<u>7.2</u>

Tool Open @ 12:50 AM Initial Blow WEAK BLOW - BUILT TO 7"
 ISI: BLED OFF BLOW - NO BLOW BACK
 Final Blow STRONG BLOW - BOTTOM OF BUCKET IN 30 SECONDS
 FSI: BLED OFF BLOW - NO BLOW BACK

Recovery - Total Feet 2545 Flush Tool? NO

Rec. <u>180</u>	Feet of	<u>GAS IN PIPE</u>	RELEASED SEP 6 1994 FROM CONFIDENTIAL
Rec. <u>682</u>	Feet of	<u>GASSY DRILLING MUD</u>	
Rec. <u>1863</u>	Feet of	<u>SALT WATER</u>	
Rec. _____	Feet of	_____	
Rec. _____	Feet of	_____	

BHT 119 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
 RW 0.32 @ 75 °F Chlorides 18000 ppm Recovery Chlorides 3000 ppm System

(A) Initial Hydrostatic Mud	<u>2089.1</u> PSI	AK1 Recorder No.	<u>13850</u>	Range	<u>4325</u>
(B) First Initial Flow Pressure	<u>59.3</u> PSI	@ (depth)	<u>4478</u>	w / Clock No.	<u>27585</u>
(C) First Final Flow Pressure	<u>81.2</u> PSI	AK1 Recorder No.	<u>13851</u>	Range	<u>4425</u>
(D) Initial Shut-in Pressure	<u>1267.4</u> PSI	@ (depth)	<u>4492</u>	w / Clock No.	<u>14389</u>
(E) Second Initial Flow Pressure	<u>635.7</u> PSI	AK1 Recorder No.	<u>1055</u>	Range	<u>4500</u>
(F) Second Final Flow Pressure	<u>984.6</u> PSI	@ (depth)	<u>4767</u>	w / Clock No.	<u>28941</u>
(G) Final Shut-in Pressure	<u>1311.2</u> PSI	Initial Opening	<u>30</u>	Final Flow	<u>60</u>
(H) Final Hydrostatic Mud	<u>2067.8</u> PSI	Initial Shut-in	<u>60</u>	Final Shut-in	<u>120</u>

Our Representative TOM HORACEK

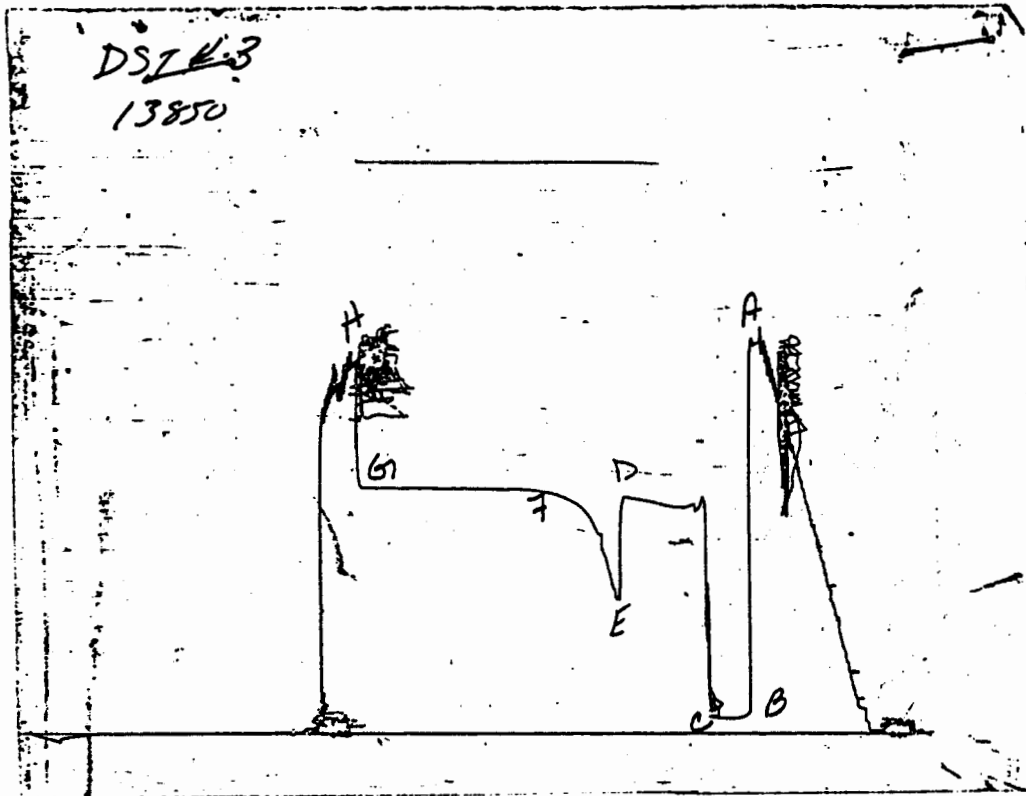
CHART PAGE

KCO

AUG 2 4

CONFIDENTIAL

ORIGINAL



This is an actual photograph of recorder chart

RELEASED

SEP 6 1994

FROM CONFIDENTIAL

FIELD
READING

OFFICE
READING

(A) INITIAL HYDROSTATIC MUD	2082	2089.1
(B) FIRST INITIAL FLOW PRESSURE	53	59.3
(C) FIRST FINAL FLOW PRESSURE	74	81.2
(D) INITIAL CLOSED-IN PRESSURE	1260	1267.4
(E) SECOND INITIAL FLOW PRESSURE	629	635.7
(F) SECOND FINAL FLOW PRESSURE	980	984.6
(G) FINAL CLOSED-IN PRESSURE	1303	1311.2
(H) FINAL HYDROSTATIC MUD	2061	2067.8

RECEIVED
STATE COMMISSION

AUG 30 1993

CONSERVATION DIVISION
Wichita, Kansas

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

AUG 24

Drill-Stem Test Data

CONFIDENTIAL

Well Name NOVINGER SOUTH WELL #1 Test No. 4 Date 5/10/93
Company GIANT EXPLORATION PRODUCTION CO Zone NOVINGER
Address PO BOX 2810 FARMINGTON NM 87499 Elevation 2676
Co. Rep./Geo. DAVID D CLARK Cont. MURFIN #22 Est. Ft. of Pay 10
Location: Sec. 8 2 Twp. 34S Rge. 30W Co. MEADE State CO

Interval Tested 5292-5310
Anchor Length 13
Top Packer Depth 5292
Bottom Packer Depth 5297
Total Depth 5310

Drill Pipe Size 4.5" XH
Wt. Pipe I.D. - 2.7 Ft. Run 593
Drill Collar - 2.25 Ft. Run 9.0 lb/Gal.
Mud Wt. 45
Viscosity 7.6 Filtrate

Tool Open @ 8:10 AM Initial Blow STRONG BLOW - BOTTOM OF BUCKET AS TOOL OPENED
GAS TO SURFACE IN 3 MINUTES GAUGED @ 156 MCF/DAY

Final Blow BOTTOM OF BUCKET AS TOOL OPENED
GAUGED @ 47.7 MCF/DAY

Recovery - Total Feet 1988

Flush Tool? NO

Rec. 1524 Feet of CLEAN GASSY OIL 40%GAS/60%OIL
Rec. 464 Feet of SALT WATER
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

RELEASED

SEP 6 1994

FROM CONFIDENTIAL

BHT 125 °F Gravity 39 °API @ 72 °F Corrected Gravity 38.2 °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 3000 ppm System

(A) Initial Hydrostatic Mud 2538.1 PSI AK1 Recorder No. 13850 Range 4325

(B) First Initial Flow Pressure 244.4 PSI @ (depth) 5300 w / Clock No. 27585

(C) First Final Flow Pressure 325.5 PSI AK1 Recorder No. 13851 Range 4425

(D) Initial Shut-in Pressure 1667.1 PSI @ (depth) 5307 w / Clock No. 14389

(E) Second Initial Flow Pressure 388.8 PSI AK1 Recorder No. _____ Range _____

(F) Second Final Flow Pressure 675.7 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 1681.4 PSI Initial Opening 30 Final Flow 60

(H) Final Hydrostatic Mud 2502.3 PSI Initial Shut-in 60 Final Shut-in 120

Our Representative TOM HORACEK

KCC
AUG 24
CONFIDENTIAL

Terry Reddick, United Mud Service Company, performed titration on water recovered during the following DST's.

ORIGINAL

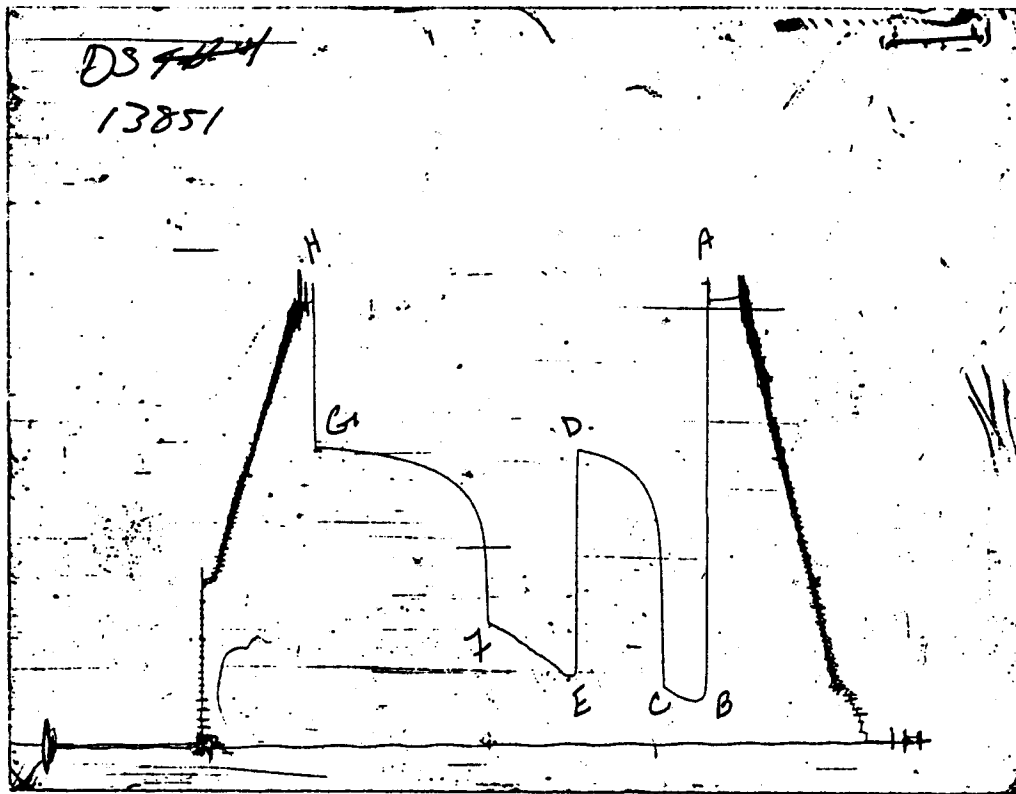
DST No. 3 Toronto 4446-4500
water from pipe recovery 129,000 ppm chlorides, 60 degrees F

DST No. 4 Novinger 5292-5310
water from pipe recovery 134,000 ppm chlorides, 60 degrees F

RELEASED
SEP 6 1994
FROM CONFIDENTIAL

RECEIVED
STATE COMMISSION
AUG 30 1993
CONSERVATION DIVISION
Wichita, Kansas

CHART PAGE



AUG 24
CONFIDENTIAL

RELEASED

SEP 6 1994

FROM CONFIDENTIAL

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2531	2538.1
(B) FIRST INITIAL FLOW PRESSURE	233	244.4
(C) FIRST FINAL FLOW PRESSURE	322	325.5
(D) INITIAL CLOSED-IN PRESSURE	1674	1667.1
(E) SECOND INITIAL FLOW PRESSURE	388	388.8
(F) SECOND FINAL FLOW PRESSURE	685	675.7
(G) FINAL CLOSED-IN PRESSURE	1696	1681.4
(H) FINAL HYDROSTATIC MUD	2497	2502.3

RECEIVED
STATE COMMISSION
AUG 30 1993
CONSERVATION DIVISION
Wichita, Kansas

GAS VOLUME REPORT

100

AUG 24

CONFIDENTIAL

GIANT EXPLORATION PRODUCTION CO

NOVINGER SOUTH WELL #1

DST # 4

ORIGINAL

MIN	WATER	ORIFICE	MCF/D
10	18	1.5	295
20	10	1.5	220
30	5	1.5	156

MIN	PSIG	ORIFICE	MCF/D
10	15	1.5	147
20	6	1.5	86.3
30	8	1.5	101
40	4	1.5	68.8
50	3	1.5	59.2
60	2	1.5	47.7

RELEASED

SEP 6 1994

FROM CONFIDENTIAL

RECEIVED
STATE GEOLOGICAL COMMISSION
AUG 30 1993
CONSERVATION DIVISION
Wichita, Kansas

Remarks: GAS TO SURFACE IN 3 MINUTES - GAS WILL BURN

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

AUG 24

CONFIDENTIAL

ORIGINAL

Well Name NOVINGER SOUTH WELL #1 Test No. 5 Date 5/13/93
 Company GIANT EXPLORATION PRODUCTION CO Zone MORROW
 Address PO BOX 2810 FARMINGTON NM 87499 Elevation 2676
 Co. Rep./Geo. DAVID D CLARK Cont. MURFIN #22 Est. Ft. of Pay _____
 Location: Sec. 2 Twp. 34S Rge. 30W Co. MEADE State CO

Interval Tested <u>5780-5896</u>	Drill Pipe Size <u>4.5" XH</u>
Anchor Length <u>116</u>	Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth <u>5775</u>	Drill Collar - 2.25 Ft. Run <u>532</u>
Bottom Packer Depth <u>5780</u>	Mud Wt. <u>9.0</u> lb/Gal.
Total Depth <u>5896</u>	Viscosity <u>54</u> Filtrate <u>7.4</u>

Tool Open @ 9:05 AM Initial Blow 2" BLOW - BUILT TO BOTTOM OF BUCKET IN 1 MINUTE
ISI: BLED OFF BLOW - WEAK BLOW - BUILT TO 7"
 Final Blow 7" BLOW - BUILT TO BOTTOM OF BUCKET IN 11 MINUTES
FSI: BLED OFF BLOW - NO BLOW BACK

Recovery - Total Feet 80 Flush Tool? NO

Rec. <u>240</u>	Feet of <u>GAS IN PIPE</u>
Rec. <u>80</u>	Feet of <u>DRILLING MUD</u>
Rec. _____	Feet of _____
Rec. _____	Feet of _____
Rec. _____	Feet of _____

RELEASED

SEP 6 1994

FROM CONFIDENTIAL

BHT 130 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 2600 ppm System

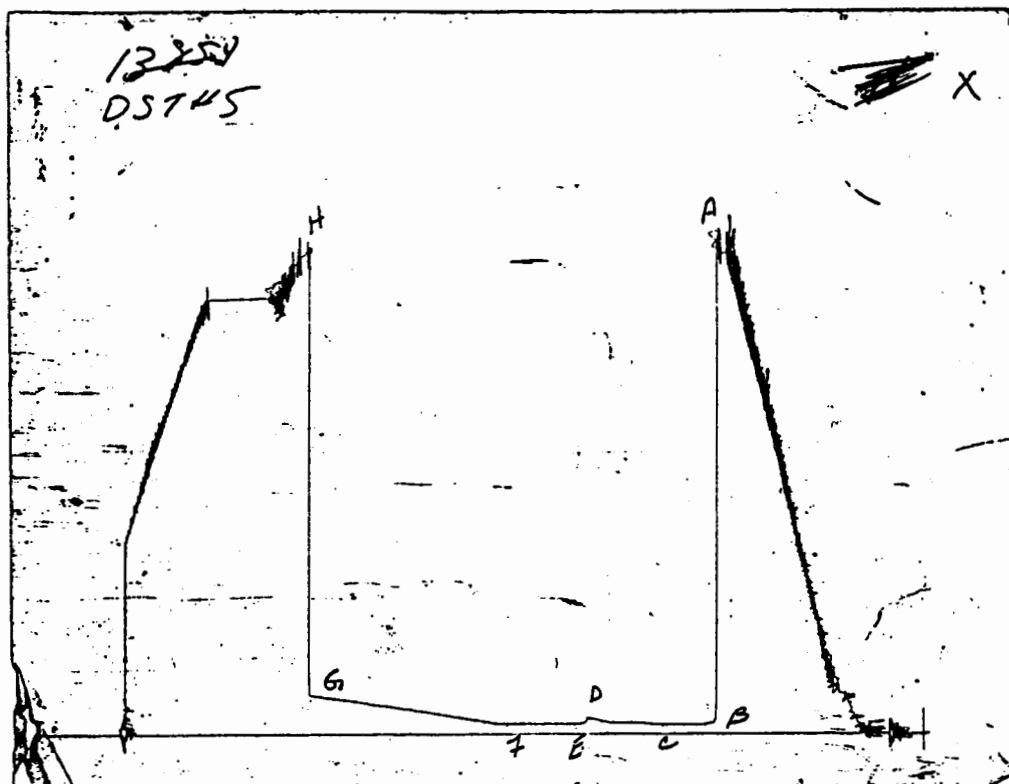
(A) Initial Hydrostatic Mud <u>2746.3</u> PSI	AK1 Recorder No. <u>13850</u>	Range <u>4325</u>
(B) First Initial Flow Pressure <u>61.2</u> PSI	@ (depth) <u>5784</u>	w / Clock No. <u>27585</u>
(C) First Final Flow Pressure <u>61.2</u> PSI	AK1 Recorder No. <u>13851</u>	Range <u>4425</u>
(D) Initial Shut-in Pressure <u>93.7</u> PSI	@ (depth) <u>5893</u>	w / Clock No. <u>14389</u>
(E) Second Initial Flow Pressure <u>59.3</u> PSI	AK1 Recorder No. _____	Range _____
(F) Second Final Flow Pressure <u>59.3</u> PSI	@ (depth) _____	w / Clock No. _____
(G) Final Shut-in Pressure <u>224.5</u> PSI	Initial Opening <u>30</u>	Final Flow <u>60</u>
(H) Final Hydrostatic Mud <u>2716.9</u> PSI	Initial Shut-in <u>60</u>	Final Shut-in <u>130</u>

RECEIVED

AUG 3 1993

CONSERVATION DIVISION
Wichita, Kansas

Our Representative TOM HORACEK



REC
AUG 24
CONFIDENTIAL

RELEASED

SEP 6 1994

This is an actual photograph of recorder chart

FROM CONFIDENTIAL

FIELD
READING

OFFICE
READING

(A) INITIAL HYDROSTATIC MUD	2731	2746.3
(B) FIRST INITIAL FLOW PRESSURE	55	61.2
(C) FIRST FINAL FLOW PRESSURE	55	61.2
(D) INITIAL CLOSED-IN PRESSURE	88	93.7
(E) SECOND INITIAL FLOW PRESSURE	44	59.3
(F) SECOND FINAL FLOW PRESSURE	44	59.3
(G) FINAL CLOSED-IN PRESSURE	211	224.5
(H) FINAL HYDROSTATIC MUD	2708	2716.9

RECEIVED
AUG 30 1993
CONSERVATION DIVISION
Wichita, Kansas