

15-119-20886-0000

# TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

DST

# ORIGINAL

## Drill-Stem Test Data

# CONFIDENTIAL

Well Name NOVINGER SOUTH #3 Test No. 1 Date 6/8/94  
 Company GIANT EXPLORATION & PRODUCTION CO Zone COUNCIL GROV  
 Address BOX 2810 FARMINGTON NEW MEXICO 87499 Elevation 2685  
 Co. Rep./Geo. DAVID CLARK Cont. MURFIN DRLG RIG #22 Est. Ft. of Pay 8  
 Location: Sec. 2 Twp. 34S Rge. 30W Co. MEADE State KS

Interval Tested <u>3160-3182</u>	Drill Pipe Size <u>4.5" XH</u>
Anchor Length <u>22</u>	Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth <u>3155</u>	Drill Collar - 2.25 Ft. Run <u>603</u>
Bottom Packer Depth <u>3160</u>	Mud Wt. _____ <u>8.9</u> lb/Gal.
Total Depth <u>3182</u>	Viscosity <u>45</u> Filtrate <u>10.9</u>

Tool Open @ 5:50 PM Initial Blow STRONG BLOW-BOTTOM OF BUCKET AS TOOL OPENED  
GAS TO SURFACE IN 2 MINUTES **RELEASED**  
 Final Blow BOTTOM OF BUCKET AS TOOL OPENED-GAUGED @ 1105 MCF  
AUG 1 8 1995

Recovery - Total Feet 70 Flush Tool? NO FROM CONFIDENTIAL

Rec. <u>70</u> Feet of <u>DRILLING MUD</u>	<i>Rec'd</i>
Rec. _____ Feet of _____	
Rec. _____ Feet of _____	<b>JUL 27</b>
Rec. _____ Feet of _____	<b>CONFIDENTIAL</b>
Rec. _____ Feet of _____	

BHT 98 °F Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
 RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery Chlorides 3500 ppm System

(A) Initial Hydrostatic Mud 1524.2 PSI AK1 Recorder No. 5495 Range 4200

(B) First Initial Flow Pressure 110.6 PSI @ (depth) 3164 w/ Clock No. 25813

(C) First Final Flow Pressure 166.0 PSI AK1 Recorder No. 11038 Range 5075

(D) Initial Shut-in Pressure 789.3 PSI @ (depth) 3179 w/ Clock No. 25814

(E) Second Initial Flow Pressure 199.5 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_

(F) Second Final Flow Pressure 194.2 PSI @ (depth) \_\_\_\_\_ w/ Clock No. \_\_\_\_\_

(G) Final Shut-in Pressure 789.3 PSI Initial Opening 30 Final Flow 60

(H) Final Hydrostatic Mud 1489.1 PSI Initial Shut-in 60 Final Shut-in 120

Our Representative TOM HORACEK

# ORIGINAL

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## INITIAL FLOW

RECORDER 11038

DST # 1

TIME(MIN)      PRESSURE <> PRESSURE

0	110.6	110.6
3	112.0	1.4
6	113.3	1.3
9	121.4	8.1
12	128.2	6.8
15	136.3	8.1
18	145.7	9.4
21	151.1	5.4
24	157.9	6.8
27	161.9	4.0
30	166.1	4.2

RELEASED

AUG 1 8 1995

FROM CONFIDENTIAL

## FINAL FLOW

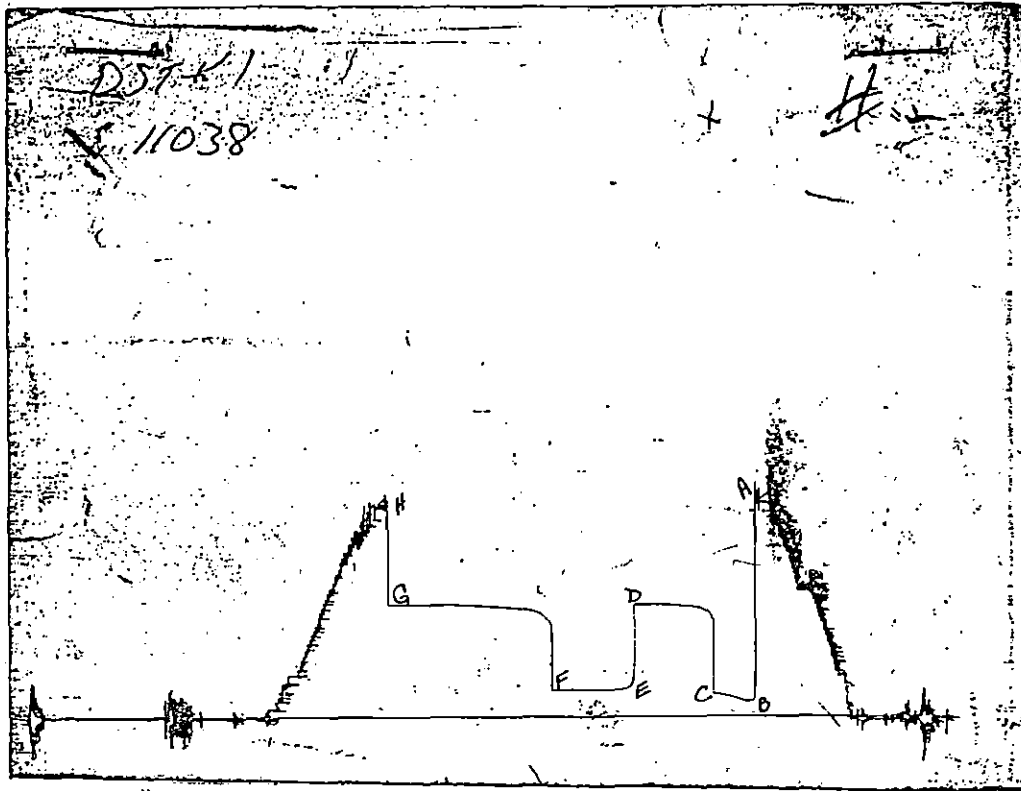
RECORDER 11038

DST # 1

TIME(MIN)      PRESSURE <> PRESSURE

0	199.5	199.5
3	199.5	0.0
6	199.5	0.0
9	198.2	-1.3
12	198.2	0.0
15	196.9	-1.3
18	196.9	0.0
21	196.9	0.0
24	196.9	0.0
27	195.5	-1.4
30	195.5	0.0
33	195.5	0.0
36	195.5	0.0
39	195.5	0.0
42	195.5	0.0
45	194.2	-1.3
48	194.2	0.0
51	194.2	0.0
54	194.2	0.0
57	194.2	0.0

CHART PAGE



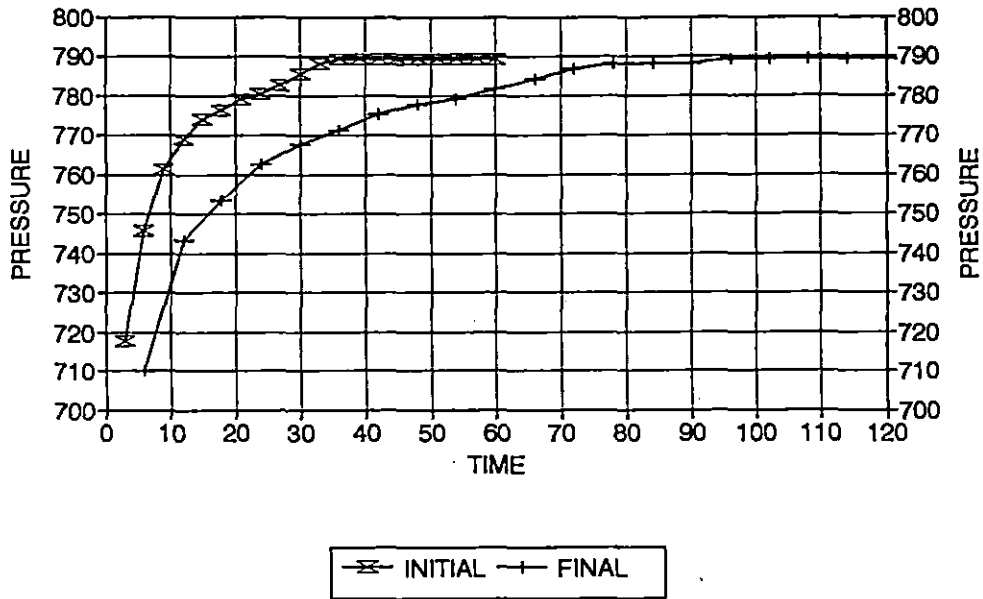
This is an actual photograph of recorder chart #11038

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1536	1524.2
(B) FIRST INITIAL FLOW PRESSURE	109	110.6
(C) FIRST FINAL FLOW PRESSURE	163	166
(D) INITIAL CLOSED-IN PRESSURE	791	789.3
(E) SECOND INITIAL FLOW PRESSURE	203	199.5
(F) SECOND FINAL FLOW PRESSURE	190	194.2
(G) FINAL CLOSED-IN PRESSURE	791	789.3
(H) FINAL HYDROSTATIC MUD	1511	1489.1

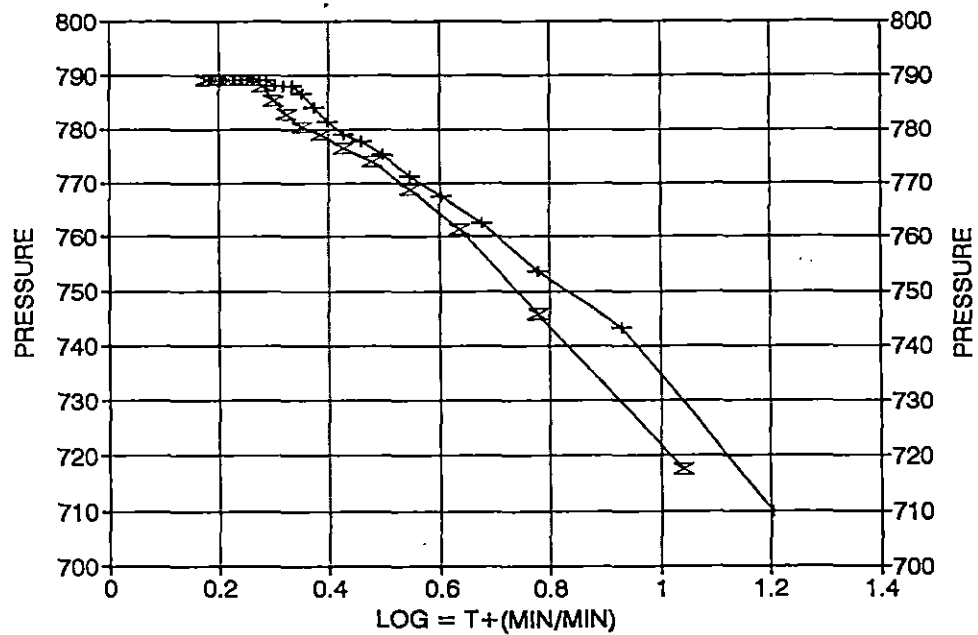
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NOVINGER SOUTH #3 / DST #1  
DELTA T DELTA P



HORNER PLOT



NOVINGER SOUTH DST #1  
INITIAL SHUTIN

30 INITIAL FLOW TIME

11/10/90

Slope 8483.35 psi/cycle  
P \* 795 psi

	TIME(MIN)	Pws (psi)	Horn T	Log <> PRESSURE	Horn T
	3	717.6	1.041	717.6	11
	6	745.8	0.778	28.2	6
	9	761.2	0.637	15.4	4
	12	768.9	0.544	7.7	4
	15	774.0	0.477	5.1	3
	18	776.5	0.426	2.5	3
	21	779.1	0.385	2.6	2
	24	780.4	0.352	1.3	2
	27	782.9	0.325	2.5	2
X	30	785.5	0.301	2.6	2
	33	788.1	0.281	2.6	2
	36	789.3	0.263	1.2	2
	39	789.3	0.248	0.0	2
	42	789.3	0.234	0.0	2
	45	789.3	0.222	0.0	2
	48	789.3	0.211	0.0	2
	51	789.3	0.201	0.0	2
	54	789.3	0.192	0.0	2
	57	789.3	0.184	0.0	2
X	60	789.3	0.176	0.0	2

NOVINGER SOUTH DST #1  
FINAL SHUTIN

90 TOTAL FLOW TIME

Slope 5115.90 psi/cycle  
P \* 793 psi

		Pws (psi)	Horn T	Log <> PRESSURE	Horn T
	6	709.9	1.204	709.9	16
	12	743.2	0.929	33.3	9
	18	753.5	0.778	10.3	6
	24	762.5	0.677	9.0	5
	30	767.6	0.602	5.1	4
	36	771.4	0.544	3.8	4
	42	775.3	0.497	3.9	3
	48	777.8	0.459	2.5	3
	54	779.1	0.426	1.3	3
	60	781.6	0.398	2.5	3
	66	784.2	0.374	2.6	2
	72	786.8	0.352	2.6	2
X	78	788.1	0.333	1.3	2
	84	788.1	0.316	0.0	2
	90	788.1	0.301	0.0	2
	96	789.3	0.287	1.2	2
	102	789.3	0.275	0.0	2
	108	789.3	0.263	0.0	2
	114	789.3	0.253	0.0	2
X	120	789.3	0.243	0.0	2

GAS VOLUME REPORT

ORIGINAL

CONFIDENTIAL

GIANT EXPLORATION & PRODUCTION CO

NOVINGER SOUTH #3

DST # 1

MIN	PSIG	ORIFICE	MCF/D	MIN	PSIG	ORIFICE	MCF/D
10	8.5	1.25	729	10	16	1.25	1064
20	10	1.25	802	20	17	1.25	1105
30	12	1.25	893	30	17	1.25	1105
				40	17	1.25	1105
				50	17	1.25	1105
				60	17	1.25	1105

Remarks: GAS TO SURFACE IN 2 MINUTES/ GAS WILL BURN

# FLUID SAMPLER DATA

Ticket No.: 7016 Date: 6/8/94  
Company: GIANT EXPLORATION & PRODUCTION CO  
Lease: NOVINGER SOUTH #3 Test No.: 1  
County: MEADE Sec.: 2 Twp.: 34S Rng.: 30W

## SAMPLER RECOVERY

Gas 6.8 cu ft  
Oil  
Mud 100  
Water  
Other  
Pressure 580  
TOTAL 4000

## PIT MUD ANALYSIS

Chlorides 3500  
Resistivity ohms@ F  
Viscosity 45  
Mud Wt. 8.9  
Filtrate 10.9  
Other

## PIPE RECOVERY

### TOP

Resistivity ohms@ F  
Chlorides ppm.  
Gravity corrected @60F

Resistivity ohms@ F  
Chlorides ppm

### MIDDLE

Resistivity ohms@ F  
Chlorides ppm

### BOTTOM

Resistivity ohms@ F  
Chlorides ppm

ORIGINAL

# TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

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## Drill-Stem Test Data

Well Name NOVINGER SOUTH #3 Test No. 2 Date 6/13/94  
 Company GIANT EXPLORATION PRODUCTION CO Zone KS CITY 'B'  
 Address PO BOX 2810 FARMINGTON NM 87499 Elevation 2685  
 Co. Rep./Geo. DAVE CLARK Cont. MURFIN #22 Est. Ft. of Pay 6  
 Location: Sec. 2 Twp. 34S Rge. 30W Co. MEADE State KS

Interval Tested	<u>5101-5113</u>	Drill Pipe Size	<u>4.5" XH</u>
Anchor Length	<u>12</u>	Wt. Pipe I.D. - 2.7 Ft. Run	<u>        </u>
Top Packer Depth	<u>5096</u>	Drill Collar - 2.25 Ft. Run	<u>603</u>
Bottom Packer Depth	<u>5101</u>	Mud Wt.	<u>9.0</u> lb/Gal.
Total Depth	<u>5113</u>	Viscosity	<u>43</u> Filtrate <u>13.</u>

Tool Open @ 4:45PM Initial Blow STRONG BLOW - BOTTOM OF BUCKET IN 30 SECONDS  
GAS TO SURFACE IN 5 MINUTES  
 Final Blow BOTTOM OF BUCKET AS TOOL OPENED  
GAUGED @ 7.51 MCF

Recovery - Total Feet 3840 Flush Tool? NO

Rec. <u>3720</u>	Feet of	<u>CLEAN GASSY OIL 60%GAS/40%OIL</u>
Rec. <u>120</u>	Feet of	<u>SALT WATER</u>
Rec. <u>        </u>	Feet of	<u>        </u>
Rec. <u>        </u>	Feet of	<u>        </u>
Rec. <u>        </u>	Feet of	<u>        </u>

BHT 116 °F Gravity 37 °API @ 80 °F Corrected Gravity 35.7 °API  
 RW 0.062 @ 99 °F Chlorides 91000 ppm Recovery Chlorides 3100 ppm System

(A) Initial Hydrostatic Mud	<u>2522.9</u> PSI	AK1 Recorder No.	<u>5495</u>	Range	<u>4200</u>
(B) First Initial Flow Pressure	<u>170.1</u> PSI	@ (depth)	<u>5104</u>	w / Clock No.	<u>25813</u>
(C) First Final Flow Pressure	<u>332.9</u> PSI	AK1 Recorder No.	<u>11038</u>	Range	<u>5075</u>
(D) Initial Shut-in Pressure	<u>1617.3</u> PSI	@ (depth)	<u>5110</u>	w / Clock No.	<u>25814</u>
(E) Second Initial Flow Pressure	<u>445.1</u> PSI	AK1 Recorder No.	<u>        </u>	Range	<u>        </u>
(F) Second Final Flow Pressure	<u>785.5</u> PSI	@ (depth)	<u>        </u>	w / Clock No.	<u>        </u>
(G) Final Shut-in Pressure	<u>1619.9</u> PSI	Initial Opening	<u>30</u>	Final Flow	<u>60</u>
(H) Final Hydrostatic Mud	<u>2428.2</u> PSI	Initial Shut-in	<u>60</u>	Final Shut-in	<u>120</u>

Our Representative TOM HORACEK



INITIAL FLOW

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RECORDER 11038

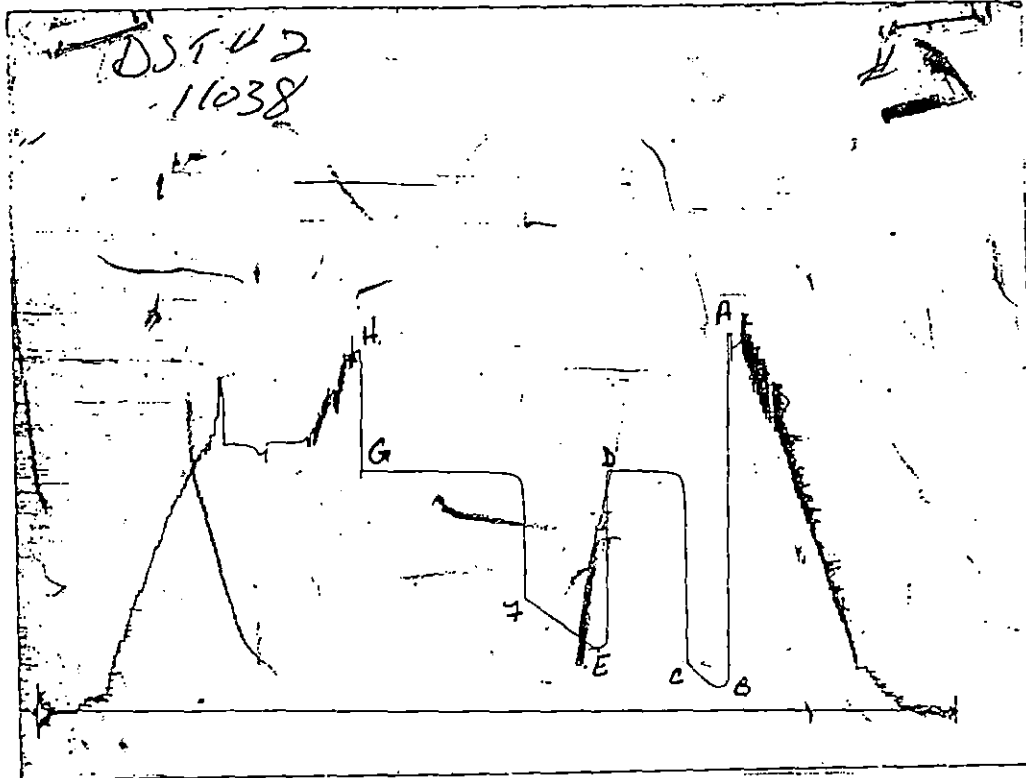
DST # 2

TIME(MIN)      PRESSURE <>PRESSURE

0	170.1	170.1
3	178.1	8.0
6	194.2	16.1
9	213.1	18.9
12	237.9	24.8
15	259.8	21.9
18	286.4	26.6
21	311.7	25.3
24	332.9	21.2

ORIGINAL

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2452	2522.9
(B) FIRST INITIAL FLOW PRESSURE	176	170.1
(C) FIRST FINAL FLOW PRESSURE	323	332.9
(D) INITIAL CLOSED-IN PRESSURE	1612	1617.3
(E) SECOND INITIAL FLOW PRESSURE	442	445.1
(F) SECOND FINAL FLOW PRESSURE	779	785.5
(G) FINAL CLOSED-IN PRESSURE	1612	1619.9
(H) FINAL HYDROSTATIC MUD	2400	2428.2

NOVINGER SOUTH # DST #2  
INITIAL SHUTIN

30 INITIAL FLOW TIME SLOPE 54.6 PSI/CYCLE  
P\* 1626.92 PSI

CONFIDENTIAL

Log <>

TIME(MIN)	Pws (psi)	Horn T	PRESSURE	Horn T
3	1560.6	1.041	1560.6	11
6	1590.9	0.778	30.3	6
9	1601.1	0.637	10.2	4
12	1603.5	0.544	2.4	4
15	1608.5	0.477	5.0	3
18	1611.1	0.426	2.6	3
21	1611.1	0.385	0.0	2
24	1612.3	0.352	1.2	2
27	1612.3	0.325	0.0	2
30	1614.8	0.301	2.5	2
33	1614.8	0.281	0.0	2
36	1614.8	0.263	0.0	2
39	1614.8	0.248	0.0	2
42	1614.8	0.234	0.0	2
X 45	1614.8	0.222	0.0	2
48	1617.3	0.211	2.5	2
51	1617.3	0.201	0.0	2
54	1617.3	0.192	0.0	2
57	1617.3	0.184	0.0	2
X 60	1617.3	0.176	0.0	2

ORIGINAL

INTERCOMPARISON

FINAL FLOW

RECORDER 11038

DST # 2

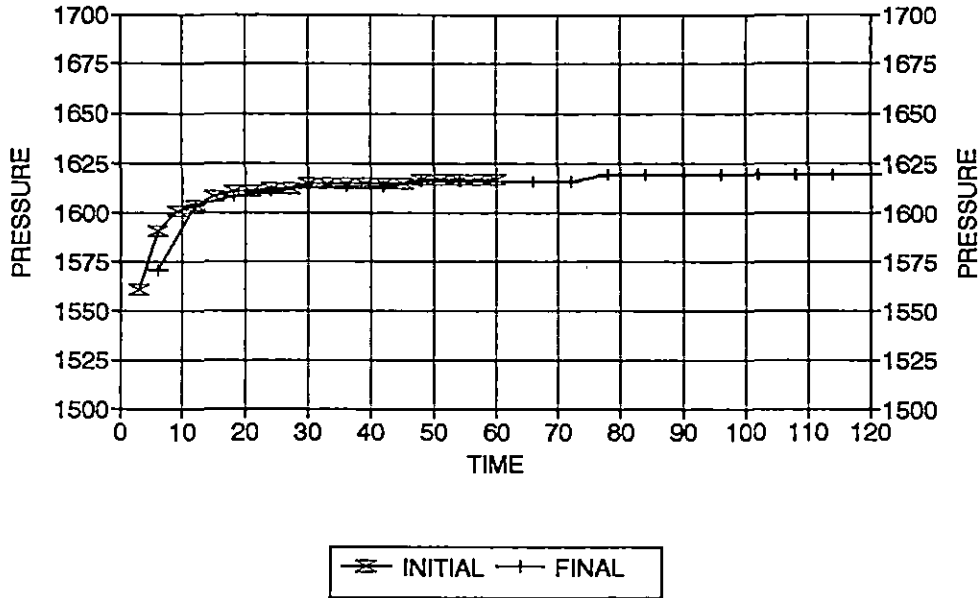
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TIME(MIN)	PRESSURE	<>	PRESSURE
0	445.1		445.1
3	464.7		19.6
6	486.9		22.2
9	507.8		20.9
12	527.4		19.6
15	548.2		20.8
18	565.1		16.9
21	585.9		20.8
24	606.6		20.7
27	626.1		19.5
30	645.4		19.3
33	662.2		16.8
36	682.8		20.6
39	700.8		18.0
42	718.9		18.1
45	734.3		15.4
48	756.1		21.8
51	774.1		18.0
54	785.5		11.4

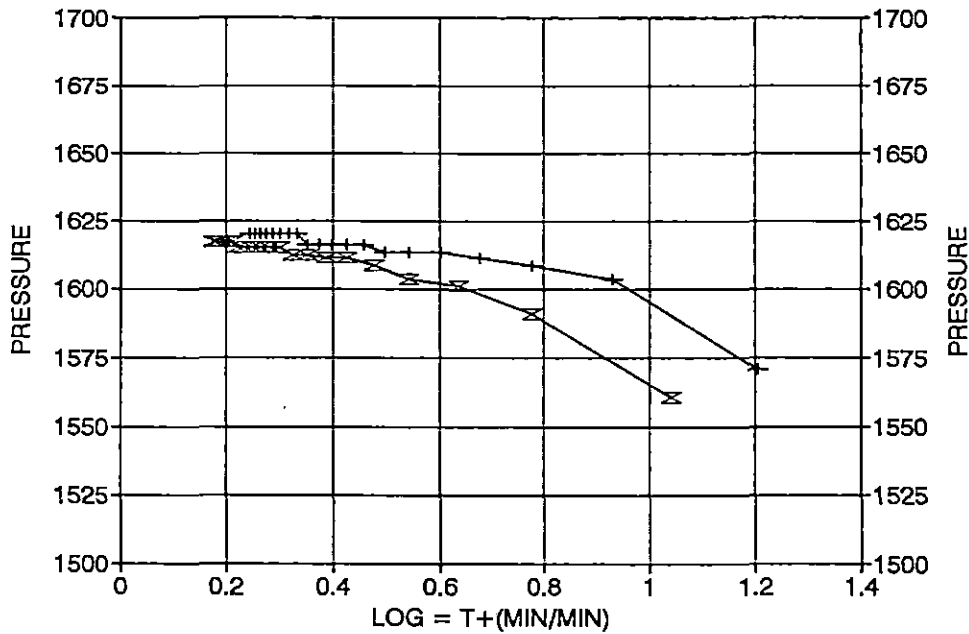
ORIGINAL

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NOVINGER SOUTH #3 / DST #2  
DELTA T DELTA P



HORNER PLOT



NOVINGER SOUTH  
FINAL

DST #2  
SHUTIN

90 TOTAL FLOW TIME

-----  
SLOPE 24.5 PSI/CYCLE  
P\* 1625.9 PSI  
-----

Log <>  
-----  
Horn T PRESSURE Horn T  
-----

	6	1570.7	1.204	1570.7	16
	12	1603.5	0.929	32.8	9
	18	1608.5	0.778	5.0	6
	24	1611.1	0.677	2.6	5
	30	1613.6	0.602	2.5	4
	36	1613.6	0.544	0.0	4
	42	1613.6	0.497	0.0	3
	48	1616.1	0.459	2.5	3
	54	1616.1	0.426	0.0	3
X	60	1616.1	0.398	0.0	3
	66	1616.1	0.374	0.0	2
	72	1616.1	0.352	0.0	2
	78	1619.9	0.333	3.8	2
	84	1619.9	0.316	0.0	2
	90	1619.9	0.301	0.0	2
	96	1619.9	0.287	0.0	2
	102	1619.9	0.275	0.0	2
	108	1619.9	0.263	0.0	2
	114	1619.9	0.253	0.0	2
X	120	1619.9	0.243	0.0	2

# GAS VOLUME REPORT

GIANT EXPLORATION PRODUCTION CO

NOVINGER SOUTH #3

DST # 2

MIN	INCHES OF WTR	ORIFICE	MCF/D	MIN	INCHES OF WTR	ORIFICE	MCF/D
10	28	1	137	10	30	0.25	9.2
20	12	1	89.8	20	38	0.25	10.4
30	3	0.25	2.92	30	40	0.25	10.6
				40	38	0.25	10.4
				50	34	0.25	9.79
				60	20	0.25	7.51

Remarks: GAS TO SURFACE IN 5 MINUTES / GAS WILL BURN

FLUID SAMPLER DATA

ORIGINAL

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Ticket No.: 7019 Date: 6/13/94  
 Company: GIANT EXPLORATION PRODUCTION CO  
 Lease: NOVINGER SOUTH #3 Test No.: 2  
 County: MEADE Sec.: 2 Twp.: 34S Rng.: 30W

SAMPLER RECOVERY

Gas 16.4 CUBIC FT.  
 Oil 2400  
 Mud  
 Water  
 Other  
 Pressure 890  
 TOTAL 4000

PIT MUD ANALYSIS

Chlorides 3100  
 Resistivity ohms@ F  
 Viscosity 43  
 Mud Wt. 9.0  
 Filtrate 13.  
 Other

SAMPLER ANALYSIS

Resistivity 0.062 ohms@ 99 F  
 Chlorides 91000 ppm.  
 Gravity corrected @60F

PIPE RECOVERY

TOP

Resistivity ohms@ F  
 Chlorides ppm

MIDDLE

Resistivity ohms@ F  
 Chlorides ppm

BOTTOM

Resistivity 0.062 ohms@ 99 F  
 Chlorides 91000 ppm



## NATURAL GAS ANALYSIS REPORT

Sampled by:  
Trilobite Testing, L.L.C.  
Hays, Kansas  
Scott City, Kansas  
Phone: 800-728-5369  
Fax: 913-625-5620

Analyzed by:  
Caraway Analytical, L.L.C.  
728 North Roosevelt  
Liberal, Kansas 67901  
Phone: 316-324-5389  
Fax: 316-626-7108

Lab Number:	940299	Analyzed:	06/19/94
Sample From:	Novinger South #3 DST 2	Pressure:	
Producer:	Giant Exploration Co.	Temperature:	
Date:		Location:	2-34-30W
Time:		County:	Meade
Sampler:		State:	Kansas
Source:		Formation:	K. C. "B"

	Mole %	GPM
Helium	He:	0.000
Oxygen	O2:	0.000
Nitrogen	N2:	5.649
Carbon Dioxide	CO2:	0.130
Methane	C1:	56.946
Ethane	C2:	13.024
Propane	C3:	12.581
Iso Butane	iC4:	1.673
Normal Butane	nC4:	4.468
Iso Pentane	iC5:	1.285
Normal Pentane	nC5:	1.491
Hexanes Plus	C6+:	2.753

TOTAL: 100.000 11.117  
Z Fact: 0.9936  
SP.GR.: 0.9861  
BTU (SAT): 1560.9 @ 14.73 psia  
BTU (DRY): 1588.5 @ 14.73 psia  
OCTANE RATING: 107.7

COMMENTS: Sample entered under vacuum  
Insufficient pressure for Helium analysis

# TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

CONFIDENTIAL

ORIGINAL

## Drill-Stem Test Data

Well Name NOVINGER SOUTH #3 Test No. 3 Date 6/14/94  
Company GIANT EXPLORATION PRODUCTION CO Zone NOVINGER  
Address PO BOX 2810 FARMINGTON NM 87499 Elevation 2685  
Co. Rep./Geo. DAVE CLARK Cont. MURFIN #22 Est. Ft. of Pay 5  
Location: Sec. 2 Twp. 34S Rge. 30W Co. MEADE State KS

Interval Tested 5295-5309 Drill Pipe Size 4.5" XH  
Anchor Length 14 Wt. Pipe I.D. - 2.7 Ft. Run \_\_\_\_\_  
Top Packer Depth 5290 Drill Collar - 2.25 Ft. Run 603  
Bottom Packer Depth 5295 Mud Wt. \_\_\_\_\_ 9.0 lb/Gal.  
Total Depth 5309 Viscosity 52 Filtrate 8

Tool Open @ 3:05PM Initial Blow BOTTOM OF BUCKET AS TOOL OPENED  
GAS TO SURFACE IN 4 MINUTES - GAUGED @ 319 MCF  
Final Blow BOTTOM OF BUCKET AS TOOL OPENED  
GAUGED @ 137 MCF

Recovery - Total Feet 120 Flush Tool? NO

Rec. \_\_\_\_\_ Feet of DROPPED BAR AFTER PULLING 4 STANDS  
Rec. 120 Feet of GASSY OIL 20%GAS/80%OIL  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_

BHT 118 °F Gravity 41 °API @ 80 °F Corrected Gravity 39.4 °API  
RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery Chlorides 3000 ppm System

(A) Initial Hydrostatic Mud 2613.9 PSI AK1 Recorder No. 5495 Range 4200

(B) First Initial Flow Pressure 147.1 PSI @ (depth) 5298 w / Clock No. 25813

(C) First Final Flow Pressure 148.4 PSI AK1 Recorder No. 11038 Range 5075

(D) Initial Shut-in Pressure 1619.9 PSI @ (depth) 5306 w / Clock No. 25814

(E) Second Initial Flow Pressure 156.5 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_

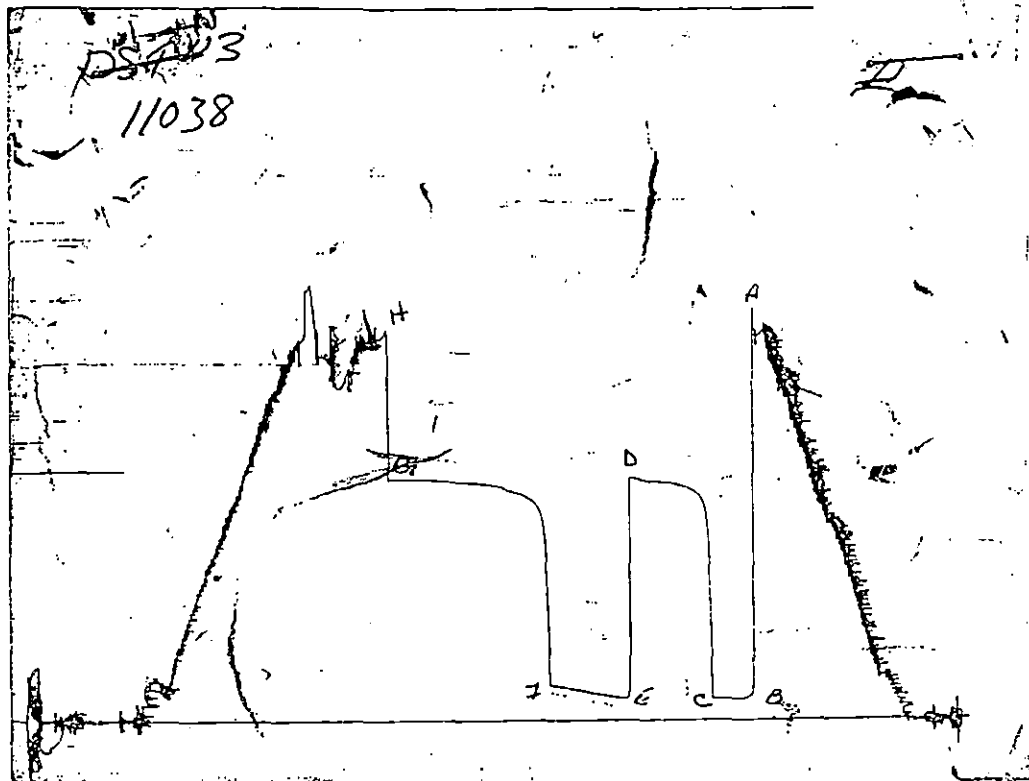
(F) Second Final Flow Pressure 245.1 PSI @ (depth) \_\_\_\_\_ w / Clock No. \_\_\_\_\_

(G) Final Shut-in Pressure 1612.3 PSI Initial Opening 30 Final Flow 60

(H) Final Hydrostatic Mud 2559.4 PSI Initial Shut-in 60 Final Shut-in 120

Our Representative TOM HORACEK

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2593	2613.9
(B) FIRST INITIAL FLOW PRESSURE	149	147.1
(C) FIRST FINAL FLOW PRESSURE	163	148.4
(D) INITIAL CLOSED-IN PRESSURE	1612	1619.9
(E) SECOND INITIAL FLOW PRESSURE	149	156.5
(F) SECOND FINAL FLOW PRESSURE	243	245.1
(G) FINAL CLOSED-IN PRESSURE	1612	1612.3
(H) FINAL HYDROSTATIC MUD	2542	2559.4

# ORIGINAL

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FINAL FLOW

RECORDER 11038

DST # 3

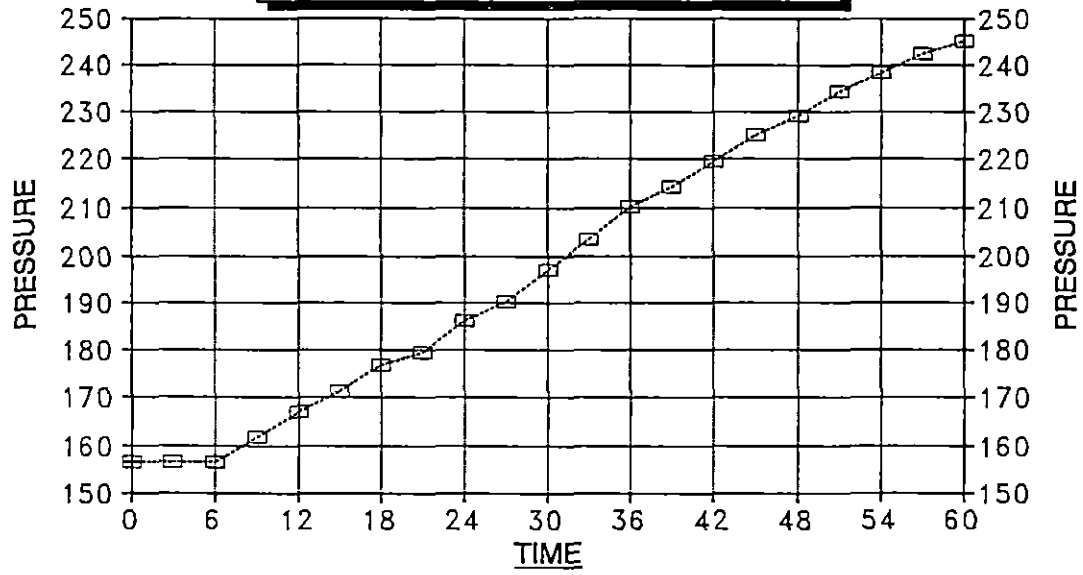
TIME(MIN)      PRESSURE <> PRESSURE

TIME(MIN)	PRESSURE	<>	PRESSURE
0	156.5		156.5
3	156.5		0.0
6	156.5		0.0
9	161.9		5.4
12	167.3		5.4
15	171.3		4.0
18	176.7		5.4
21	179.4		2.7
24	186.1		6.7
27	190.2		4.1
30	196.9		6.7
33	203.6		6.7
36	210.3		6.7
39	214.3		4.0
42	219.7		5.4
45	225.1		5.4
48	229.1		4.0
51	234.4		5.3
54	238.4		4.0
57	242.4		4.0
60	245.1		2.7

SAMPLED

# DELTA T DELTA P

FINAL FLOW / DST #2



—□— NOVINGER SOUTH #3

INITIAL PRODUCTION CORRECTED TO PSEUDO STEADY FLOW STATE:

32.363

NOVINGER SOUTH # DST #3  
INITIAL SHUTIN

30 INITIAL FLOW TIME

SLOPE 319.7 PSI/CYCLE  
P\* 1676.20 PSI

ORIGINAL

CONFIDENTIAL

TIME(MIN)	Pws (psi)	Log Horn T	<> PRESSURE	Horn T
3	1304.2	1.041	1304.2	11
6	1462.6	0.778	158.4	6
9	1509.1	0.637	46.5	4
12	1530.5	0.544	21.4	4
15	1545.5	0.477	15.0	3
18	1558.1	0.426	12.6	3
21	1560.6	0.385	2.5	2
24	1569.2	0.352	8.6	2
27	1578.3	0.325	9.1	2
30	1583.3	0.301	5.0	2
33	1589.6	0.281	6.3	2
36	1592.2	0.263	2.6	2
39	1593.4	0.248	1.2	2
42	1597.2	0.234	3.8	2
45	1599.7	0.222	2.5	2
48	1604.8	0.211	5.1	2
51	1612.3	0.201	7.5	2
X 54	1614.9	0.192	2.5	2
57	1618.6	0.184	3.8	2
X 60	1619.9	0.176	1.3	2

NOVINGER SOUTH

DST #3

FINAL

SHUTIN

90 TOTAL FLOW TIME

SLOPE 56.6 PSI/CYCLE

P\* 1626.0 PSI

Log <>

Horn T PRESSURE Horn T

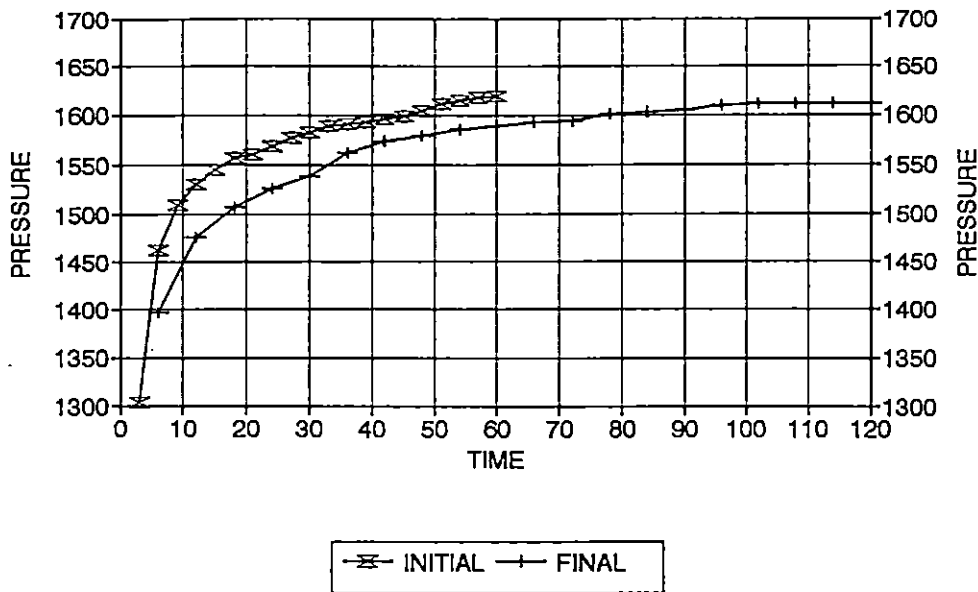
	6	1396.1	1.204	1396.1	16
	12	1476.4	0.929	80.3	9
	18	1507.9	0.778	31.5	6
	24	1526.7	0.677	18.8	5
	30	1539.3	0.602	12.6	4
	36	1563.2	0.544	23.9	4
	42	1574.5	0.497	11.3	3
	48	1579.6	0.459	5.1	3
	54	1585.9	0.426	6.3	3
	60	1589.6	0.398	3.7	3
	66	1593.4	0.374	3.8	2
	72	1594.7	0.352	1.3	2
	78	1601.1	0.333	6.4	2
	84	1603.5	0.316	2.4	2
	90	1606.1	0.301	2.6	2
X	96	1609.8	0.287	3.7	2
	102	1612.3	0.275	2.5	2
	108	1612.3	0.263	0.0	2
	114	1612.3	0.253	0.0	2
X	120	1612.3	0.243	0.0	2

ORIGINAL

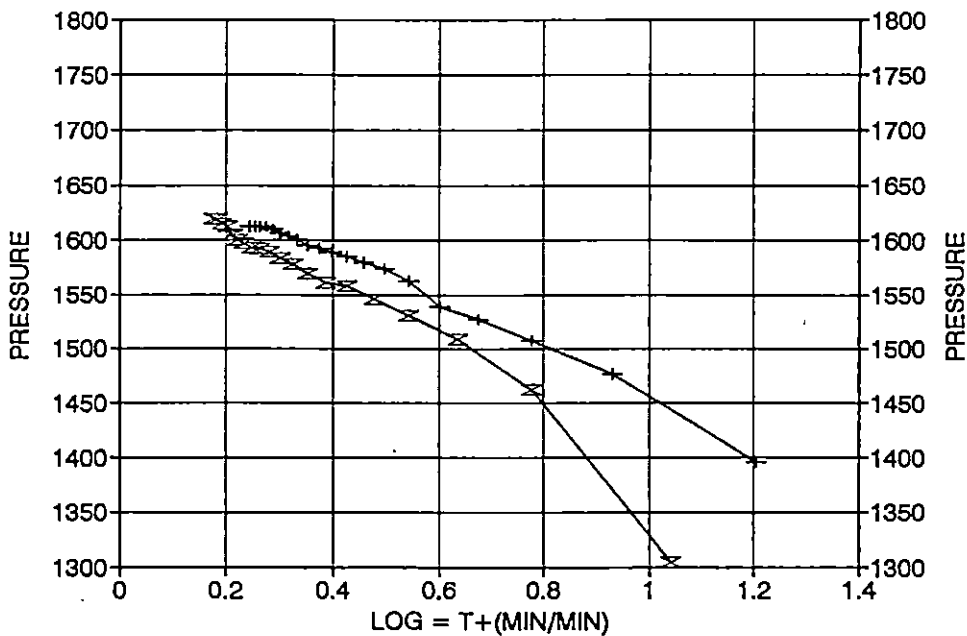
ORIGINAL

CONFIDENTIAL

### NOVINGER SOUTH #3 / DST #3 DELTA T DELTA P



### HORNER PLOT





# GAS VOLUME REPORT

GIANT EXPLORATION PRODUCTION CO

NOVINGER SOUTH #3

DST # 3

MIN	IN WATER	ORIFICE	MCF/D	MIN	IN WATE	ORIFICE	MCF/D
	PSIG				PSIG		
10	6	1	353	10	5	1	319
20	6.5	1	369	20	4.5	1	301
30	5	1	319	30	3.5	1	263
				40	2.5	1	220
				50	1.5	1	169
				60	1	1	137

Remarks: GAS TO SURFACE IN 4 MINUTES

FLUID SAMPLER DATA

ORIGINAL

CONFIDENTIAL

Ticket No.: 7020

Date: 6/14/94

Company: GIANT EXPLORATION PRODUCTION CO

Lease: NOVINGER SOUTH #3

Test No.: 3

County: MEADE

Sec.: 2

Twp.: 34S

Rng.: 30W

SAMPLER RECOVERY

Gas 12.6 CUBIC FT

Oil 2200

Mud

Water

Other

Pressure 1200

TOTAL 4000

SAMPLER ANALYSIS

Resistivity ohms@ F

Chlorides ppm.

Gravity corrected @60F

PIT MUD ANALYSIS

Chlorides 3000

Resistivity ohms@ F

Viscosity 52

Mud Wt. 9.0

Filtrate 8

Other

PIPE RECOVERY

TOP

Resistivity ohms@ F

Chlorides ppm

MIDDLE

Resistivity ohms@ F

Chlorides ppm

BOTTOM

Resistivity ohms@ F

Chlorides ppm

ORIGINAL

NATURAL GAS ANALYSIS REPORT

Sampled by:
Trilobite Testing, L.L.C.
Hays, Kansas
Scott City, Kansas
Phone: 800-728-5369
Fax: 913-625-5620

Analyzed by:
Caraway Analytical, L.L.C.
728 North Roosevelt
Liberal, Kansas 67901
Phone: 316-324-5389
Fax: 316-626-7108

Lab Number: 940314
Sample From: Novinger South #3 DST 3
Producer: Giant Exploration Co.
Date:
Time:
Sampler:
Source:
Analyzed: 06/16/94
Pressure:
Temperature:
Location: 2-34-30W
County: Meade
State: Kansas
Formation: Novinger

Table with 3 columns: Component, Mole %, GPM. Rows include Helium, Oxygen, Nitrogen, Carbon Dioxide, Methane, Ethane, Propane, Iso Butane, Normal Butane, Iso Pentane, Normal Pentane, Hexanes Plus, and summary rows for TOTAL, Z Fact, SP.GR., BTU (SAT), BTU (DRY), and OCTANE RATING.

COMMENTS:

700
200
50

200



HALLIBURTON ENERGY SERVICES

FORM 1906 R-13

CHARGE TO: *Great Exploration*  
 ADDRESS: *Box 1836*  
 CITY, STATE, ZIP CODE: *Liberal, KS 67905*

COPY

TICKET

No. 677689 - 1

PAGE 1 OF 2

SERVICE LOCATIONS 1. <i>Liberal, KS</i>	WELL/PROJECT NO. <i>3</i>	LEASE <i>Navigator Int. Mendo</i>	COUNTY/PARISH	STATE	CITY/OFFSHORE LOCATION	DATE <i>6-5-94</i>	OWNER
2. <i>Haystack, KS</i>	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	NITROGEN JOB? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	CONTRACTOR <i>Murkin</i>	RIG NAME/NO. <i>27</i>	SHIPPED VIA	DELIVERED TO	ORDER NO.
3.	WELL TYPE	WELL CATEGORY	JOB PURPOSE	WELL PERMIT NO.	WELL LOCATION		
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS <i>01 01 010</i>						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
<i>000-017</i>					MILEAGE	<i>112</i>				<i>2.25</i>	<i>252.00</i>
<i>001-016</i>					<i>Pump Charge</i>	<i>1509</i>					<i>137.00</i>
<i>17A</i>	<i>825-217</i>				<i>Guide Shoe</i>	<i>8200</i>		<i>1.50</i>			<i>216.00</i>
<i>24A</i>	<i>819-19502</i>				<i>Insert Float</i>	<i>8920</i>		<i>1.50</i>			<i>171.00</i>
<i>27</i>	<i>815-10425</i>				<i>5.00 of Tube</i>						<i>5.00</i>
<i>412</i>	<i>806-61448</i>				<i>Centering</i>	<i>876</i>		<i>2.25</i>		<i>6.00</i>	<i>195.00</i>
<i>031</i>	<i>031</i>				<i>5 W. per Day</i>	<i>876</i>		<i>1.50</i>			<i>130.00</i>

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.

CUSTOMER OR CUSTOMER'S AGENT SIGNATURE: *X David E Rice*  
 DATE SIGNED: *6-5-94* TIME SIGNED:  A.M.  P.M.

1  do  do not require IPC (Instrument Protection).  Not offered

SUB SURFACE SAFETY VALVES AS:  
 PULLED  RETURN  PULLED  RUN

TYPE LOCK DEPTH  
 BEAN SIZE SPACERS  
 TYPE OF EQUALIZING SUB. CASING PRESSURE  
 TUBING SIZE TUBING PRESSURE WELL DEPTH  
 TREE CONNECTION TYPE VALVE

SURVEY  
 AGREE UN-DECIDED DIS-AGREE  
 OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?  
 WE UNDERSTOOD AND MET YOUR NEEDS?  
 OUR SERVICE WAS PERFORMED WITHOUT DELAY?  
 WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?  
 ARE YOU SATISFIED WITH OUR SERVICE?  
 YES  NO  
 CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL: *2395.00*  
 FROM CONTINUATION PAGE(S): *959.00*  
 SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE: *11984.00*

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

CUSTOMER OR CUSTOMER'S AGENT (PLEASE PRINT): *David E Rice*  
 CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE): *X David E Rice*  
 HALLIBURTON OPERATOR/ENGINEER: *David E Rice* EMP # *6-30-94*  
 HALLIBURTON APPROVAL

CONFIDENTIAL  
 RECEIVED  
 STATE CORPORATION COMMISSION  
 SEP 19 1994  
 CONFIDENTIAL  
 JUL 27  
 FROM CONFIDENTIAL  
 AUG 18 1994  
 RELEASED  
 ORIGINAL  
 CONFIDENTIAL

WELL DATA

FIELD \_\_\_\_\_ SEC 2 TWP. 24S RNG. 30W COUNTY McDonald STATE Ks

FORMATION NAME \_\_\_\_\_ TYPE \_\_\_\_\_  
FORMATION THICKNESS \_\_\_\_\_ FROM \_\_\_\_\_ TO \_\_\_\_\_  
INITIAL PROD: OIL \_\_\_\_\_ BPD. WATER \_\_\_\_\_ BPD. GAS \_\_\_\_\_ MCFD  
PRESENT PROD: OIL \_\_\_\_\_ BPD. WATER \_\_\_\_\_ BPD. GAS \_\_\_\_\_ MCFD  
COMPLETION DATE \_\_\_\_\_ MUD TYPE \_\_\_\_\_ MUD WT. \_\_\_\_\_  
PACKER TYPE \_\_\_\_\_ SET AT \_\_\_\_\_  
BOTTOM HOLE TEMP. \_\_\_\_\_ PRESSURE \_\_\_\_\_  
MISC DATA \_\_\_\_\_ TOTAL DEPTH \_\_\_\_\_

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	<input checked="" type="checkbox"/>	14"	5 1/2	1500	1500	
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

**CONFIDENTIAL**

JOB DATA

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		H
FLOAT SHOE		
GUIDE SHOE <u>Reg 4 3/4</u>	<u>1</u>	<u>U</u>
CENTRALIZERS <u>5-4 3/4"</u>	<u>3</u>	
BOTTOM PLUG		W
TOP PLUG <u>5 1/2"</u>	<u>1</u>	
HEAD		C
PACKER		
OTHER		O

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>6-5-94</u>	DATE <u>6-5-94</u>	DATE <u>6-5-94</u>	DATE <u>6-5-94</u>
TIME _____	TIME <u>1630</u>	TIME <u>2015</u>	TIME <u>2120</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>R. Criss</u>	<u>3421</u>	<u>Wichita</u>
<u>D-7653</u>	<u>514</u>	
<u>H. ...</u>		
<u>47841</u>		
<u>R. ...</u>	<u>7944</u>	<u>Wichita</u>
<u>G-2731</u>	<u>2634</u>	
<u>M. ...</u>	<u>75505</u>	<u>Houston</u>
<u>G-3896</u>	<u>261K</u>	
<u>R. ...</u>	<u>6611</u>	
<u>F-4531</u>	<u>261K</u>	

MATERIALS

TREAT. FLUID \_\_\_\_\_ DENSITY \_\_\_\_\_ LB./GAL. API  
DISPL. FLUID \_\_\_\_\_ DENSITY \_\_\_\_\_ LB./GAL. API  
PROP. TYPE \_\_\_\_\_ SIZE \_\_\_\_\_ LB.  
PROP. TYPE \_\_\_\_\_ SIZE \_\_\_\_\_ LB.  
ACID TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ %  
ACID TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ %  
SURFACTANT TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ IN  
NE AGENT TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ IN  
FLUID LOSS ADD. TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN  
GELLING AGENT TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN  
FRIC. RED. AGENT TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN  
BREAKER TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN  
BLOCKING AGENT TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN  
PERFPAC BALLS TYPE \_\_\_\_\_  
OTHER \_\_\_\_\_  
OTHER \_\_\_\_\_

**RELEASED**  
**AUG 1 8 1995**

**FROM CONFIDENTIAL**

**ORIGINAL**

DEPARTMENT Concrete  
DESCRIPTION OF JOB Concrete Surface  
JOB DONE THRU: TUBING  CASING  ANNULUS  TBG/ANN.   
CUSTOMER REPRESENTATIVE X Donald E. ...  
HALLIBURTON OPERATOR Ronald C. ... COPIES REQUESTED \_\_\_\_\_

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<u>510</u>	<u>Premix HEC</u>		<u>H</u>	<u>2.75 cc 4000 ...</u>	<u>2.06</u>	<u>13.3</u>
	<u>150</u>	<u>Premix F</u>		<u>H</u>	<u>2.75 cc 4000 ...</u>	<u>1.32</u>	<u>14.5</u>

PRESSURES IN PSI

SUMMARY

VOLUMES

CIRCULATING \_\_\_\_\_ DISPLACEMENT \_\_\_\_\_  
BREAKDOWN \_\_\_\_\_ MAXIMUM \_\_\_\_\_  
AVERAGE \_\_\_\_\_ FRACTURE GRADIENT \_\_\_\_\_  
SHUT-IN: INSTANT \_\_\_\_\_ 5-MIN \_\_\_\_\_ 15-MIN \_\_\_\_\_  
HYDRAULIC HORSEPOWER \_\_\_\_\_  
ORDERED \_\_\_\_\_ AVAILABLE \_\_\_\_\_ USED \_\_\_\_\_  
AVERAGE RATES IN BPM \_\_\_\_\_  
TREATING \_\_\_\_\_ DISPL. \_\_\_\_\_ OVERALL \_\_\_\_\_  
CEMENT LEFT IN PIPE \_\_\_\_\_  
FEET 39.12 REASON Shoe Total

PREFLUSH: BBL-GAL. \_\_\_\_\_ TYPE \_\_\_\_\_  
LOAD & BKDN: BBL-GAL. \_\_\_\_\_ PAD: BBL-GAL. \_\_\_\_\_  
TREATMENT: BBL-GAL. \_\_\_\_\_ DISPL. (BBL) GAL. 93.5  
CEMENT SLURRY (BBL) GAL. 147.6  
TOTAL VOLUME: BBL-GAL. \_\_\_\_\_  
REMARKS  
Circulated 1700  
To ...

**SEP 19 1994**

CONSERVATION DIVISION  
WICHITA, KANSAS

CUSTOMER: ...  
LEASE ...  
WELL NO. ...  
JOB TYPE ...  
DATE ...



HALLIBURTON ENERGY SERVICES

TICKET CONTINUATION

CUSTOMER COPY 29

TICKET No. 677689

CUSTOMER Giant Exploration WELL Novinger South #3 DATE 06-05-94 PAGE OF

FORM 1911 R-10

Table with columns: PRICE REFERENCE, SECONDARY REFERENCE/PART NUMBER, ACCOUNTING (LOC, ACCT, DF), DESCRIPTION, QTY., U/M, UNIT PRICE, AMOUNT. Rows include items like Premium Plus Cement, Halliburton Light Cement, Pozmix A, Halliburton Gel, Flocele, and Calcium Chloride.

CONFIDENTIAL  
JUL 27  
NCL

RELEASED  
AUG 1 8 1995  
FROM CONFIDENTIAL

ORIGINAL

CONFIDENTIAL

STATE OF MISSISSIPPI RECEIVED  
SEP 19 1994  
MICHIGAN DIVISION  
500-396

Summary row: SERVICE CHARGE, CUBIC FEET 695, TON MILES 1743.196, TOTAL WEIGHT 62,257, LOADED MILES 56, CONTINUATION TOTAL 9594.00

No. B 255148

CONTINUATION TOTAL 9594.00

JOB LOG FORM 2013 R-4

CUSTOMER *Giant Exp* WELL NO. *3* LEASE *Nov...* JOB TYPE *...* TICKET NO. *...*

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1300							Called out
	1630							on hole
	1810							...
	1935							...
	1945							CONFIDENTIAL
	1950							...
	2015							...
	2020	5	20					...
	2024	6	187					...
	2055	6	35					...
	2101							...
	2104	6	80					...
	2118	4	13					...
	2120							...

RELEASED

AUG 1 8 1995

FROM CONFIDENTIAL

ORIGINAL

Thank you for calling  
Halliburton Energy Serv.  
R. Crist, K. Pugh  
R. Martinez, E. Edwards  
M. Lewis

53

NOV

JUL 27

CONFIDENTIAL

RECEIVED  
STATE CORPORATION COMMISSION

SEP 19 1994

REGISTRATION DIVISION  
WICHITA, KANSAS



FORM 1906 R-13

CHARGE NO: Crane Exploration  
 ADDRESS:  
 CITY, STATE, ZIP CODE

COPY

TICKET

No. 574962 - 3

PAGE 1 OF 1

SERVICE LOCATIONS 1. 55110 2. 5535	WELL/PROJECT NO. 3	LEASE Neville	COUNTY/PARISH Madison	STATE MS	CITY/OFFSHORE LOCATION Piggos	DATE 6-15-94	OWNER Crane Exploration
TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	NITROGEN JOB? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	CONTRACTOR Mudica	RIG NAME/NO. Mudica 72	SHIPPED VIA Mudica	DELIVERED TO Location	ORDER NO.	
3.	WELL TYPE 01	WELL CATEGORY 01	JOB PURPOSE 035	WELL PERMIT NO.	WELL LOCATION L-0110		
4.	INVOICE INSTRUCTIONS						
REFERRAL LOCATION							

ORIGINAL

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
		LOC	ACCT.	DF							
000-117		1			MILEAGE	58	mi	2	1511	2.75	137.50
001-016	007-013	1			PUMP charge	6	hr	5310	1	1875	1875
007-1611		1			second stage	6	hr	3374	4	1100	1460
80	555-137	1			5/2 ESTIMATION	5	1/2	1	500	2500	2500
82	555-07549	1			FILLUP	5	1/2	1	1500	75	75
71	813-51325	1			D.V. Tool	5	1/2	1	1500	2150	2150
75	813-16510	1			PUMP SP4	5	1/2	1	1500	460	460
595	813-01687	1			D.V. Watch	5	1/2	1	1500	465	465
110	806-60077	1			CONTROLER	5	1/2	1	1500	44	352
116	806-70030	1			FUSGRIP	5	1/2	3	1500	12	36
310	806-70030	1			CRANE BOSTON	5	1/2	2	1500	110	270
317		1			SUPER FISH			10	1500	100	1000

FROM CONFIDENTIAL

RELEASED  
AUG 18 1995

CONFIDENTIAL

JUL 27

CONFIDENTIAL

**LEGAL TERMS:** Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY** provisions.

CUSTOMER OR CUSTOMER'S AGENT SIGNATURE  
*David E. Rice*  
 DATE SIGNED: 7/9/94 TIME SIGNED:  A.M.  P.M.  
 do not require IPC (Instrument Protection).  Not offered

SUB SURFACE SAFETY VALVE WAS:  
 PULLED & RETURN  PULLED  RUN

TYPE LOCK	DEPTH	
BEAN SIZE	SPACERS	
TYPE OF EQUALIZING SUB.	CASING PRESSURE	
TUBING SIZE	TUBING PRESSURE	WELL DEPTH
TREE CONNECTION	TYPE VALVE	

**SURVEY**  AGREE  UN-DECIDED  DIS-AGREE

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?

WE UNDERSTOOD AND MET YOUR NEEDS?

OUR SERVICE WAS PERFORMED WITHOUT DELAY?

WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?

ARE YOU SATISFIED WITH OUR SERVICE?  
 YES  NO

CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL: 10474

FROM CONTINUATION PAGE(S): 7133

SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE: 18177

**CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES**

The customer hereby acknowledges receipt of the materials and services listed on this ticket.

CUSTOMER OR CUSTOMER'S AGENT (PLEASE PRINT) <i>David E. Rice</i>	CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE) <i>David E. Rice</i>	HALLIBURTON OPERATOR/ENGINEER <i>Tom Poyer</i>	EMP # 48120	HALLIBURTON APPROVAL
---	--	---	----------------	----------------------

RECEIVED  
OPERATOR'S DIVISION  
JUL 19 1994



JOB LOG FORM 2013 R-4

CUSTOMER		WELL NO.		LEASE		JOB TYPE		TICKET NO.	
CMI Exploration		3		Nevinger		5 1/2 D.V. L.S		574967	
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS	
				T	C	TUBING	CASING		
	1900							Called out — Reg 2300	
	2250							Dw Loc — L.D. D.P.	
	2330							Run Csg.	
	0305							Safety meeting <b>CONFIDENTIAL</b>	
	0344							Hook-up to circ.	
	0401							Hook-up to set formation PKR.	
	0402							Rig set PKR.	
	0404	0-3	10				0/150	Hook-up to cmt.	
		3-6	44				150/250	Pump SUPER Flush	
	0414	6-0					250/0	Pump cmt @ 15.5 1/2 g/l	
	0420	7-8	125				0/500	Shut down — Drop plug — wash-up trk.	
	0434	8-2					50/250	Pump Displ. — 50 bbls H <sub>2</sub> O, 75 mud	
	0440	2					250/50	Reduce RATE	
	0442						1200/0	Plug landed — 650 PRESS on plug	
	0444							RELEASE PRESS. — plug held	
	0459	1.5					0/750	Drop D.V. opening plug	
	0500							OPEN D.V. tool	
								Hook-up to circ. — Rig.	
								2 <sup>ND</sup> STAGE	
	0900							Hook-up to cmt. <b>ORIGINAL</b>	
	0902	6	26				0/1000	Pump cmt @ 15 1/2 g/l	
	0906						0/1000	Shut down — Drop plug — wash-up trk	
	0910	2-7	79				0/2500	Pump Displ.	
	0920	7-2					250/0	Reduce RATE <b>NO</b>	
	0922	2					300/1500	Plug landed <b>JUL 27</b>	
		0					1500/0	D.V. closed <b>CONFIDENTIAL</b>	
	0928						0/0	RELEASE PRESS — D.V. tool held	
								Thank Tom + crew	



HALLIBURTON ENERGY SERVICES

TICKET CONTINUATION

FIELD COPY

70

TICKET No. 574762

CUSTOMER **Gaint Exploration** WELL **Novinger** DATE **6-15-94** PAGE **2** OF **2**

FORM 1911 R-10

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT		
		LOC	ACCT	DF									
504-043	516.00272				Premium Cement	180		sk		9 82	1767	60	
504-050	516.00265				Premium Plus Cement	110		sk		10 36	1139	60	
507-778	516.00227				Halad-344 W/180	68		LB		27 15	1846	20	
508-127	890.50131				5012Seal	13		sk		25 90	336	70	
508-291	516.00337				Gilsonite	900		LB		40	360	00	
509-406	890.50812				Calcium Chloride	4		sk		36 75	147	00	
509-968	516.00315				Granulated Salt	1237		LB		15	185	55	
507-210	890.50071				Flocele	28		LB		1 65	46	20	
FROM CONFIDENTIAL					RELEASED AUG 18 1995								
CONFIDENTIAL					ORIGINAL								
CONFIDENTIAL					CONFIDENTIAL								
500-207					SERVICE CHARGE	CUBIC FEET		353		1 35	476	59	
500-306					MILEAGE CHARGE	TOTAL WEIGHT	31,113	LOADED MILES	56	TON MILES	871.192	95	827.53

RECEIVED  
STATE CORPORATION COMMISSION  
SEP 19 1994  
WICHITA, KANSAS

CONFIDENTIAL  
JUL 27  
RUC

No. B 262514

CONTINUATION TOTAL

7133.05

WELL DATA

FIELD, SEC, TWP, RING, COUNTY Meade, STATE KS. FORMATION NAME, TYPE, THICKNESS, PROD, COMPLETION DATE, Packer Type, Bottom Hole Temp, Pressure, MISC DATA D.V. Tool, TOTAL DEPTH 3334

JOB DATA

Table with columns: CALLED OUT, ON LOCATION, JOB STARTED, JOB COMPLETED. Includes dates and times for 6-15-94 and 6-16-94.

PERSONNEL AND SERVICE UNITS

Table with columns: NAME, UNIT NO. & TYPE, LOCATION. Lists personnel like T. Payer, T. Davis, R. Garrison, G. McTigue.

TOOLS AND ACCESSORIES

Table with columns: TYPE AND SIZE, QTY., MAKE. Lists items like Float Collar, Float Shoe, Centralizers, Bottom Plug, Top Plug, Head, Packer, Other Weld.

MATERIALS

TREAT. FLUID, DISPL. FLUID, PROP. TYPE, ACID TYPE, SURFACTANT TYPE, NE AGENT TYPE, FLUID LOSS ADD. TYPE, GELLING AGENT TYPE, FRIC. RED. AGENT TYPE, BREAKER TYPE, BLOCKING AGENT TYPE, PERFPAC BALLS TYPE, OTHER.

AUG 1 8 1995

FROM CONFIDENTIAL

JUL 27

CONFIDENTIAL

ORIGINAL CONFIDENTIAL

DEPARTMENT 5001, DESCRIPTION OF JOB Set 5 1/2 L.S. - 1st stage, 180 sks, 10 BRIS S.F. - 2nd stage 110 sks.

JOB DONE THRU: TUBING, CASING, ANNULUS, TBG./ANN.

CUSTOMER REPRESENTATIVE X Donald E. R...

HALLIBURTON OPERATOR Tom Payer

COPIES REQUESTED

CEMENT DATA

Table with columns: STAGE, NUMBER OF SACKS, CEMENT, BRAND, BULK SACKED, ADDITIVES, YIELD CU.FT./SK., MIXED LBS./GAL. Includes data for 1st and 2nd stages.

PRESSURES IN PSI

SUMMARY

VOLUMES

CIRCULATING, BREAKDOWN, AVERAGE, SHUT-IN, INSTANT, HYDRAULIC HORSEPOWER, ORDERED, AVAILABLE, USED, AVERAGE RATES IN BPM, TREATING, DISPL., OVERALL, CEMENT LEFT IN PIPE.

FEET 425, REASON Shoe joint

REMARKS, RECEIVED SEP 19 1994, STATE COMMISSION

CUSTOMER: CHAIF Exploration, LEASE: Navis, etc. JOB TYPE: 5 1/2 L.S. DV. DATE: 6-16-94