

STATE CORPORATION COMMISSION OF KANSAS  
OIL & GAS CONSERVATION DIVISION  
WELL COMPLETION FORM  
ACO-1 WELL HISTORY  
DESCRIPTION OF WELL AND LEASE

KCC

AUG 24

API NO. 15- 119-20.865-00-00

County Meade ORIGINAL

NE - NE - SE Sec. 2 Twp. 34S Rge. 30 E/W

Operator: License # 9534

Name: Giant Exploration & Production Co

Address 2200 Bloomfield Highway

P.O. Box 2810

City/State/Zip Farmington, NM 87499-2810

Purchaser: Diamond Shamrock

Operator Contact Person: John C. Corbett

Phone ( 505 ) 326-3325

Contractor: Name: Murfin Drilling Company, Inc.

License: 30606

Wellsite Geologist: Dave Clark

Designate Type of Completion

New Well  Re-Entry  Workover

Oil  SWD  SIOW  Temp. Abd.

Gas  ENHR  SIGW

Dry  Other (Core, WSW, Expl., Cathodic, etc)

If Workover/Re-Entry: old well info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Comp. Date \_\_\_\_\_ Old Total Depth \_\_\_\_\_

Deepening  Re-perf.  Conv. to Inj/SWD

Plug Back \_\_\_\_\_ PBTB

Commingled \_\_\_\_\_ Docket No. \_\_\_\_\_

Dual Completion \_\_\_\_\_ Docket No. \_\_\_\_\_

Other (SWD or Inj?) \_\_\_\_\_ Docket No. \_\_\_\_\_

05-01-93 05-14-93 06-14-93

Spud Date Date Reached TD Completion Date

2310  Feet from S (circle one) Line of Section

330  Feet from E (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:  
NE, SE, NW or SW (circle one)

Lease Name Novinger South Well Well # 1

Field Name Wildcat

Producing Formation Novinger

Elevation: Ground 2665' KB 2676'

Total Depth 6075' PBTB 5964'

Amount of Surface Pipe Set and Cemented at 1492' Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set 2727' Feet

If Alternate II completion, cement circulated from N/A

feet depth to \_\_\_\_\_ w/ \_\_\_\_\_ ex cmt.

Drilling Fluid Management Plan  
(Data must be collected from the Reserve Pit) all I

Chloride content 14.200 ppm Fluid volume 0 bbls

Dewatering method used Natural - Evaporation

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Operator Name N/A RELEASED

Lease Name \_\_\_\_\_ License No. SEP 6 1994

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S Rng. \_\_\_\_\_ E/W

County \_\_\_\_\_ FROM CONFIDENTIAL

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist reports shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

CONSERVATION DIVISION  
Wichita, Kansas

Signature Jeffrey R. Vaughan

Title Vice President Operations Date 8-27-93

Subscribed and sworn to before me this 27th day of August, 19 93.

Notary Public Patricia Lee Chick  
Patricia Lee Chick

Date Commission Expires October 4, 1994

K.C.C. OFFICE USE ONLY		
F	<input checked="" type="checkbox"/>	Letter of Confidentiality Attached
C	<input checked="" type="checkbox"/>	Wireline Log Received
C	<input checked="" type="checkbox"/>	Geologist Report Received
Distribution		
<input checked="" type="checkbox"/>	KCC	<input type="checkbox"/> SWD/Rep
<input type="checkbox"/>	KGS	<input type="checkbox"/> Plug
<input type="checkbox"/>		<input type="checkbox"/> NGPA
<input type="checkbox"/>		<input type="checkbox"/> Other
(Specify)		

Operator Name: Giant Exploration & Production Lease Name: Novinger South Well Well # 1  
 Sec. 2 Twp. 34S Rge. 30  East  West  
 County Meade

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken (Attach Additional Sheets.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Wreford	3064	-388
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Council Grove	3169	-493
List All E.Logs Run:		Heebner	4428	-1752
		Toronto	4456	-1780
		Lansing	4598	-1922
		Kansas City "A"	5070	-2394
		Marmaton "A"	5242	-2566
		Novinger	5300	-2624
		Morrow Shale	5794	-3116
		Chester	5898	-3222

CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
conductor	36"	20"	54	41'	RediMix	N/A	N/A
surface	12-1/4"	8-5/8"	24	1492'	lite Premium Plus	575 150	2%CC
production	7-7/8"	5-1/2"	15.5	6047'	lite Premium Plus	100 405	2%CC

ADDITIONAL CEMENTING/SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate		Micro Matrix	25 sks	0.5% Halad 322 in Micro Matrix
<input type="checkbox"/> Protect Casing		Premium Plus	50 sks	
<input type="checkbox"/> Plug Back TD				
<input checked="" type="checkbox"/> Plug Off Zone				

*Communication			
Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
4 jspf	5299' to 5305'	Squeezed w/25 sks M. Matrix & 50 sks Premium Plus	5299' to 5305'
4 jspf	5300' to 5304'	Acidized 84 gallons 15% HCL	5300'

TUBING RECORD		Size	Set At	Packer At	Liner Run	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
		2-3/8", 4.7#, EUE				
Date of First, Resumed Production, SWD or Inj.			Producing Method			
06-14-93			<input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity	
	82	125	95	1524 SCF/bbl	40° API	

Disposition of Gas:	METHOD OF COMPLETION	Production Interval
<input checked="" type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease (If vented, submit ACO-18.)	<input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> commingled <input type="checkbox"/> Other (Specify) _____	5300' - 5304'

# TRILOBITE TESTING, L.L.C. ORIGINAL

P.O. Box 362 • Hays, Kansas 67601

## Drill-Stem Test Data

AUG 24

Well Name NOVINGER SOUTH WELL #1 Test No. 1 **CONFIDENTIAL** Date 8/24/93  
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. 5 Twp. 34S Rge. 30W Co. MEADE State CO

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

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 **KCC**

AUG 24

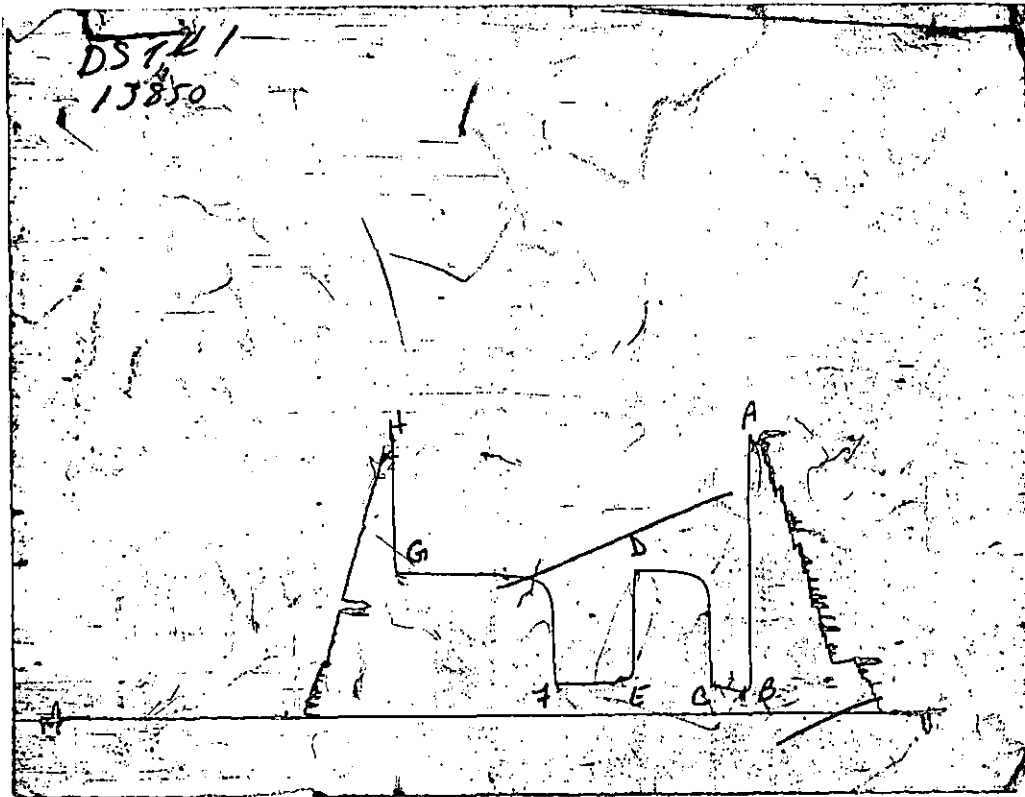
Recovery - Total Feet 70 **CONFIDENTIAL** Flush Tool? NO  
Rec. 70 Feet of GAS CUT DRILLING MUD **RELEASED**  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ **SEP 6 1994**  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ **FROM CONFIDENTIAL**  
Rec. \_\_\_\_\_ Feet of \_\_\_\_\_

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

STATE OF KANSAS RECEIVED AUG 30 1994 CONSERVATION DIVISION Hays, Kansas



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RELEASED  
SEP 6 1994  
FROM CONFIDENTIAL

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	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

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CONSERVATION DIVISION  
Wichita, Kansas

GAS VOLUME REPORT

ORIGINAL

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

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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

AUG 2 4

CONFIDENTIAL

## Drill-Stem Test Data ORIGINAL

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

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 \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_

SEP 6 1994

FROM CONFIDENTIAL

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 \_\_\_\_\_ PSI @ (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

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 AUG 5 1993  
 DIVISION  
 Wichita, Kansas

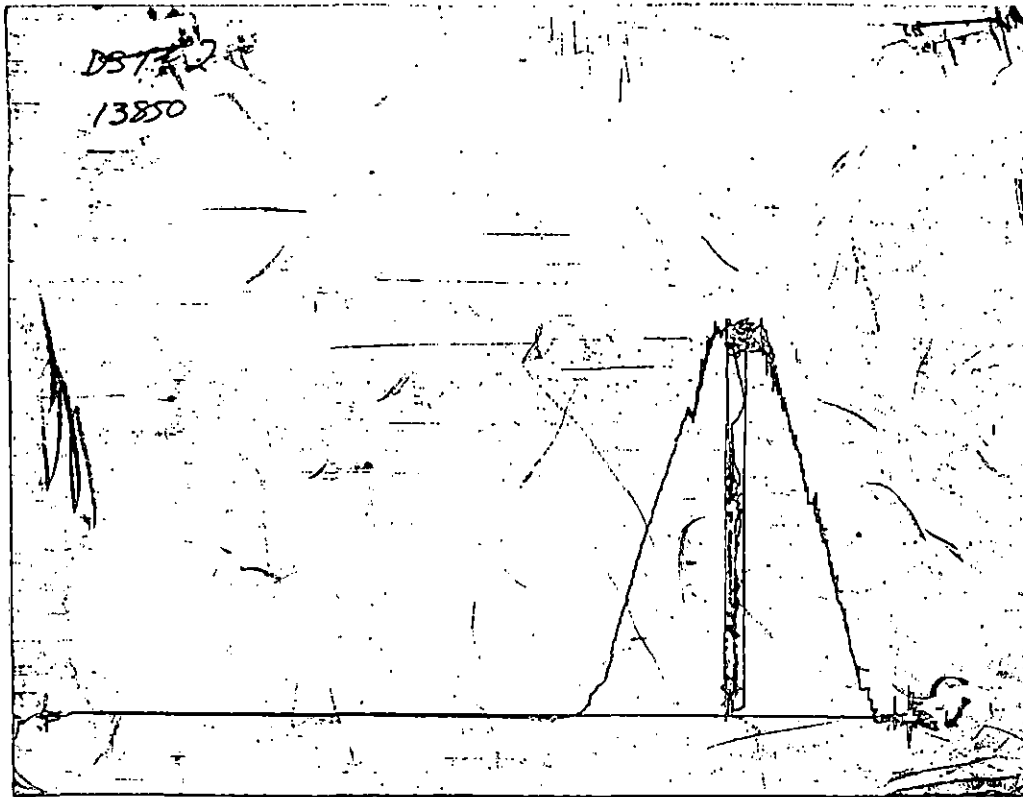
CHART PAGE

KCC

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ORIGINAL



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	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

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AUG 30 1993

CONSERVATION DIVISION  
Wichita, Kansas

# TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

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## Drill-Stem Test Data

# ORIGINAL

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. 5 Twp. 34S Rge. 30W Co. MEADE State CO

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

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. 180 Feet of GAS IN PIPE  
 Rec. 682 Feet of GASSY DRILLING MUD  
 Rec. 1863 Feet of SALT WATER  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_

RELEASED

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

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CONSERVATION DIVISION  
 Wichita, Kansas

Our Representative TOM HORACEK

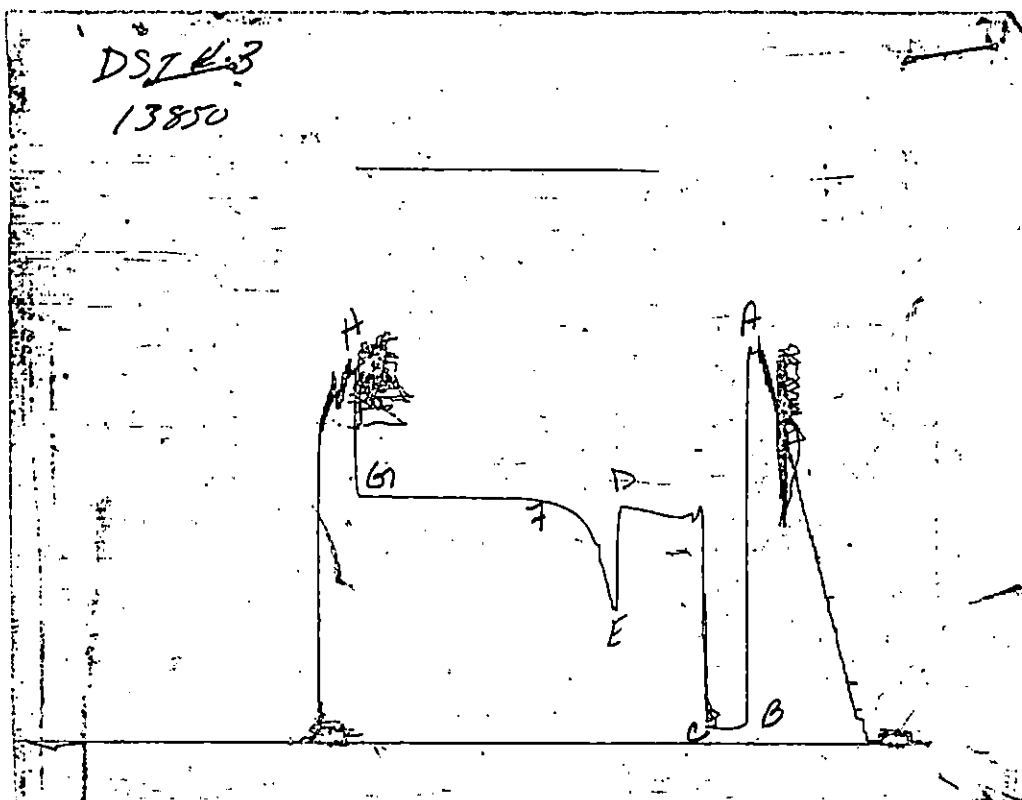


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ORIGINAL



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RELEASED

SEP 6 1994

FROM CONFIDENTIAL

	FIELD READING	OFFICE READING
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(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

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CONSERVATION DIVISION  
Wichita, Kansas

# TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

AUG 24

## Drill-Stem Test Data ORIGINAL

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. 5 Twp. 34S Rge. 30W Co. MEADE State CO

Interval Tested 5292-5310 Drill Pipe Size 4.5" XH  
 Anchor Length 13 Wt. Pipe I.D. - 2.7 Ft. Run \_\_\_\_\_  
 Top Packer Depth 5292 Drill Collar - 2.25 Ft. Run 593  
 Bottom Packer Depth 5297 Mud Wt. 9.0 lb/Gal.  
 Total Depth 5310 Viscosity 45 Filtrate 7.6

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 **RELEASED**  
 Rec. 464 Feet of SALT WATER **SEP 6 1994**  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ **FROM CONFIDENTIAL**  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_

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

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 STATE OF KANSAS  
 AUG 30 1993  
 Initial Opening  
 Initial Shut-in  
 Hays, Kansas

KCC

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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

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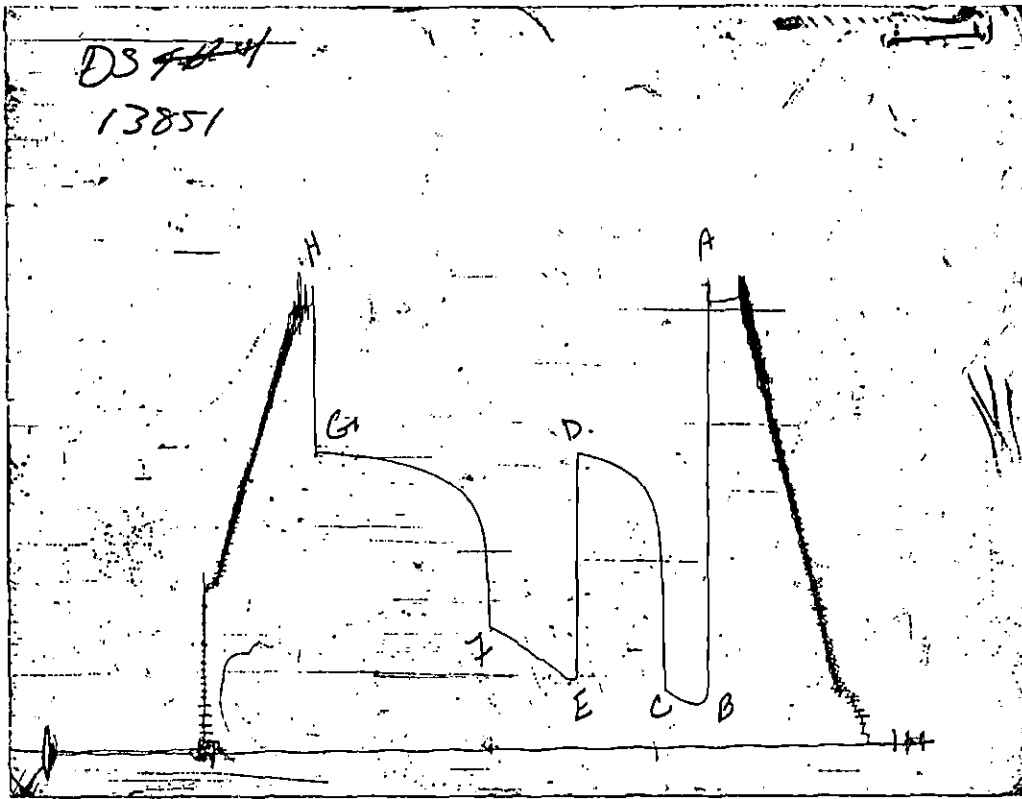
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CONSERVATION DIVISION  
Wichita, Kansas

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ORIGINAL



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	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

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CONSERVATION DIVISION  
Wichita, Kansas

GAS VOLUME REPORT

1.00

AUG 2 4

CONFIDENTIAL

GIANT EXPLORATION PRODUCTION CO

NOVINGER SOUTH WELL #1

DST # 4

ORIGINAL

MIN	WATER	ORIFICE	MCF/D	MIN	PSIG	ORIFICE	MCF/D
10	18	1.5	295	10	15	1.5	147
20	10	1.5	220	20	6	1.5	86.3
30	5	1.5	156	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

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Wichita, Kansas

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

# TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

AUG 24

CONFIDENTIAL

## Drill-Stem Test Data 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. 5 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	_____

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SEP 6 1994

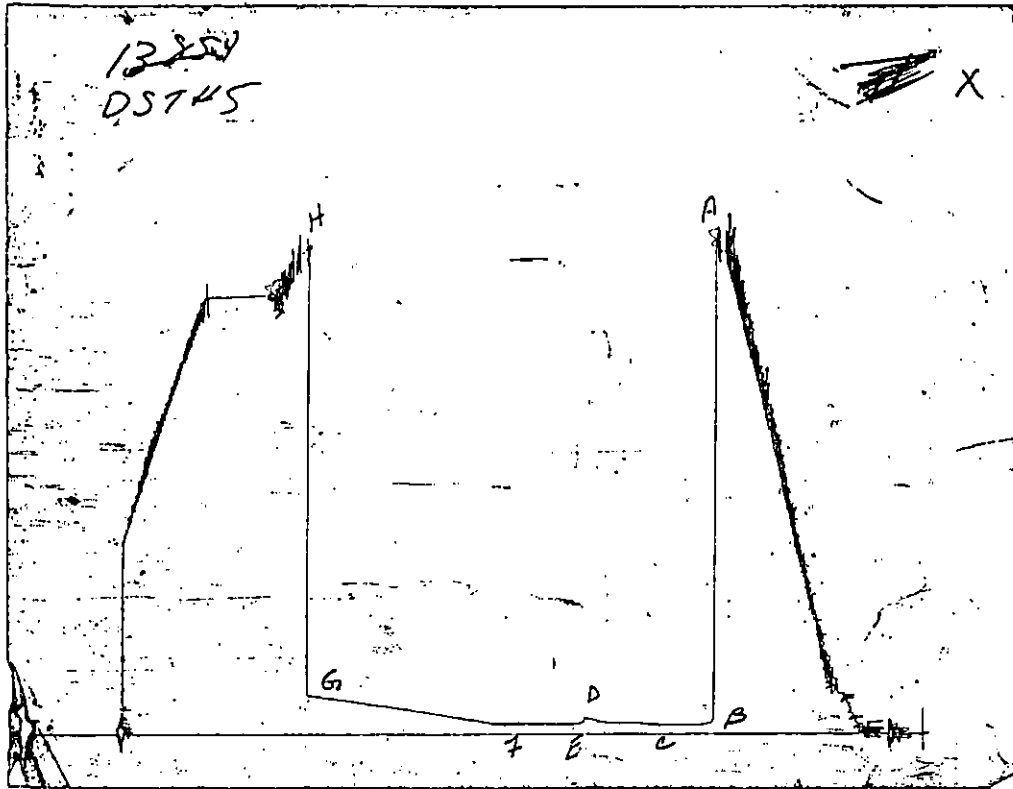
FROM CONFIDENTIAL

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>

Our Representative TOM HORACEK

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 WICHITA, KANSAS



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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

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CONSERVATION DIVISION  
Wichita, Kansas

HALLIBURTON SERVICES

WORK ORDER CONTRACT AND PRE-TREATMENT DATA

ORIGINAL

ATTACH TO INVOICE & TICKET NO. 315438

FORM 1908 R-7

A Division of Halliburton Company

DISTRICT LIBERAL

DATE 5-1-93

TO: HALLIBURTON SERVICES YOU ARE HEREBY REQUESTED TO FURNISH EQUIPMENT AND SERVICEMEN TO DELIVER AND OPERATE THE SAME AS AN INDEPENDENT CONTRACTOR TO: GREAT EXPLORATION & PRODUCTION (CUSTOMER) AND DELIVER AND SELL PRODUCTS, SUPPLIES, AND MATERIALS FOR THE PURPOSE OF SERVICING

WELL NO. 1 LEASE NOLANER SOUTH SEC. 2 TWP. 34S RANGE 30W

FIELD COUNTY STATE KS OWNED BY GREAT

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT

FORMATION NAME TYPE FROM TO Packer: TYPE SET AT TOTAL DEPTH MUD WEIGHT BORE HOLE INITIAL PROD: OIL BPD, H2O EPD, GAS MCF PRESENT PROD: OIL BPD, H2O EPD, GAS MCF

Table with columns: NEW USED, WEIGHT, SIZE, FROM, TO, MAX. ALLOW. P.B.I. Rows include CASING, LINER, TUBING, OPEN HOLE, PERFORATIONS.

CONFIDENTIAL

PREVIOUS TREATMENT: DATE TYPE MATERIALS

TREATMENT INSTRUCTIONS: TREAT THRU TUBING ANNULUS CASING TUBING/ANNULUS HYDRAULIC HORSEPOWER ORDERED

Cement 8 3/8 casing w/ 570 sk prem. Plus Lix w/ 290 cc, 1/4 floccul. PREM Plus w/ 290 cc, 1/4 floccul. - Displace w/ 1150

SEP 6 1994

CUSTOMER OR HIS AGENT WARRANTS THE WELL IS IN PROPER CONDITION TO RECEIVE THE PRODUCTS, SUPPLIES, MATERIALS, AND SERVICES FROM CONFIDENTIAL

- As consideration, the above-named Customer agrees: THIS CONTRACT MUST BE SIGNED BEFORE WORK IS COMMENCED. a) To pay Halliburton in accord with the rates and terms stated in Halliburton's current price list. b) To defend, indemnify, release and hold harmless Halliburton, its divisions, subsidiaries, parent and affiliated companies and the officers, directors, employees, agents and servants of all of them from and against any claims, liability, expenses, attorneys fees, and costs of defense to the extent permitted by law for: 1. Damage to property owned by, in the possession of, or leased by Customer, and/or the well owner... 2. Reservoir, formation, or well loss or damage, subsurface trespass or any action in the nature thereof. 3. Personal injury or death or property damage... c) That because of the uncertainty of variables: well conditions and the necessity of relying on facts and supporting services furnished by others, Halliburton is unable to guarantee the effectiveness of the products, supplies or materials... d) That Halliburton warrants only title to the products, supplies and materials and that the same are free from defects in workmanship and materials. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED OF MERCHANTABILITY, FITNESS OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. e) That Customer shall, at its risk and expense, attempt to recover or any Halliburton equipment, tools or instruments which are lost in the well and if such equipment, tools or instruments are not recovered, Customer shall pay Halliburton its replacement cost... f) To waive the provisions of the Deceptive Trade Practices - Consumer Protection Act... g) That this contract shall be governed by the law of the state where services are performed or materials are furnished. h) That Halliburton shall not be bound by any changes or modifications of this contract, except where such change or modification is made in writing by a duly authorized executive officer of Halliburton.

STATE OF KANSAS CONSERVATION DIVISION Wichita, Kansas

I HAVE READ AND UNDERSTAND THIS CONTRACT AND REPRESENT THAT I AM AUTHORIZED TO SIGN THE SAME AS CUSTOMER'S AGENT

SIGNED [Signature] CUSTOMER

DATE 5-1-93

TIME 2:30 P.M.



SUMMARY

HALLIBURTON LOCATION

LIBERAL

BILLED ON TICKET NO. 34543R

WELL DATA

FIELD \_\_\_\_\_ SEC. 2 TWP. 34S RND. 30W COUNTY MEADO 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 \_\_\_\_\_ ORIGINAL

BOTTOM HOLE TEMP. \_\_\_\_\_ PRESSURE \_\_\_\_\_

MISC. DATA \_\_\_\_\_ TOTAL DEPTH \_\_\_\_\_

JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>5-1</u>	DATE <u>5-1</u>	DATE <u>5-2</u>	DATE <u>5-2</u>
TIME <u>1200</u>	TIME <u>2100</u>	TIME <u>0300</u>	TIME <u>0500</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>Krusinber</u>	<u>01302</u>	<u>LIBERAL</u>
<u>DAVER</u>	<u>48120</u>	<u>IL</u>
<u>MYERS</u>	<u>57013</u>	<u>HUGOTON</u>
<u>DAVIS</u>	<u>64550</u>	<u>IL</u>

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DEPARTMENT CR  
DESCRIPTION OF JOB 292 SURFACE  
FROM CONFIDENTIAL

JOB DONE THRU: TUBING  CASING  ANNULUS  TRG/ANN.

CUSTOMER REPRESENTATIVE X Olan M. Howell

HALLIBURTON OPERATOR KRUSINBER COPIES REQUESTED \_\_\_\_\_

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT/SK.	MIXED LBS/GAL
<u>1</u>	<u>570</u>	<u>MEAN PWS LCA</u>		<u>B</u>	<u>290 M - 64 PCEM</u>	<u>2.06</u>	<u>12.3</u>
<u>2</u>	<u>150</u>	<u>MEAN PWS</u>		<u>B</u>	<u>290 M - 64 PCEM</u>	<u>1.33</u>	<u>11.8</u>

PRESSURES IN PSI

CIRCULATING \_\_\_\_\_ DISPLACEMENT \_\_\_\_\_

BREAKDOWN \_\_\_\_\_ MAXIMUM \_\_\_\_\_

AVERAGE \_\_\_\_\_ FRACTURE GRADIENT \_\_\_\_\_

SHUT-IN: INSTANT \_\_\_\_\_ G-MIN. \_\_\_\_\_ 15-MIN. \_\_\_\_\_

HYDRAULIC HORSEPOWER \_\_\_\_\_

ORDERED \_\_\_\_\_ AVAILABLE \_\_\_\_\_ USED \_\_\_\_\_

AVERAGE RATES IN BPM \_\_\_\_\_

TREATING \_\_\_\_\_ DISPL. \_\_\_\_\_ OVERALL \_\_\_\_\_

CEMENT LEFT IN PIPE \_\_\_\_\_

VOLUMES

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STATE COMMISSION  
AUG 31 1993  
CONSERVATION DIVISION  
Wichita, Kansas

REMARKS

\* CAC CR TO SURFACE

CUSTOMER: Liberal Eagle & Pross  
JOB TYPE: 292 Surface  
DATE: 5-1-93

**JOB LOG**

CUSTOMER GRANT EXPL. & PROD.

PAGE NO. 1

FORM 2013 R-2

JOB TYPE 8 3/4 SURFACE

DATE 5-1-93

CHART NO.	TIME	RATE (BPM)	VOLUME (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1730							Called ORIGINAL
	2130							Requested
	2100							Do Location - Rig up - TD + Circulating
	2220							T.O.H.
	2330							Rig up TRI - 5000 Cases
	2400							Run 8 3/4 Casing
	0220							Change in Hook up to Mud Pump
	0230							Hole Circulation - Safety Mfg.
	0240							Start Mud Pump Down. Hook up to last Case
	0245	3	10			150		Pump 12 BBL Fresh water Spurge
	0248	4	209			200		Pump 1000 Spurge @ 12.34. Song Return
	0340	4	35			150		Pump 1000 Spurge @ 14.84 - " "
	0351							Spurge w. Start Down To Deep Top Pump
	0352	5				500		Disp Case w/ H <sub>2</sub> O - Case Return
	0408	5-2	82			500/400		Slow Rate
	0414		92			500/400		Pump Down - Reverse Pres. Fast Turning
								Released From Location
								* Out To Surface ✓

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Wichita, Kansas

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SEP 6 1994  
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HALLIBURTON SERVICES

WORK ORDER CONTRACT

FORM 1808-R-7

A Division of Halliburton Company

AND PRE-TREATMENT DATA

ATTACH TO INVOICE & TICKET NO.

345282

DISTRICT Liberal KS

ORIGINAL

DATE 5-15-93

TO: HALLIBURTON SERVICES YOU ARE HEREBY REQUESTED TO FURNISH EQUIPMENT AND SERVICEMEN TO DELIVER AND OPERATE

THE SAME AS AN INDEPENDENT CONTRACTOR TO: Giant Exploration (CUSTOMER) AND DELIVER AND SELL PRODUCTS, SUPPLIES, AND MATERIALS FOR THE PURPOSE OF SERVICING

WELL NO. 1 LEASE Novinger South SEC. 2 TWP. 34S RANGE 30W  
FIELD \_\_\_\_\_ COUNTY Meade STATE Ks OWNED BY Same

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT

FORMATION NAME \_\_\_\_\_ TYPE \_\_\_\_\_  
FORMATION THICKNESS \_\_\_\_\_ FROM \_\_\_\_\_ TO \_\_\_\_\_  
PACKER: TYPE OV Tool SET AT 3314  
TOTAL DEPTH 6075 MUD WEIGHT 9.0  
BORE HOLE 7 7/8  
INITIAL PROD: OIL \_\_\_\_\_ BPD, H<sub>2</sub>O \_\_\_\_\_ BPD, GAS \_\_\_\_\_ MCF \_\_\_\_\_  
PRESENT PROD: OIL \_\_\_\_\_ BPD, H<sub>2</sub>O \_\_\_\_\_ BPD, GAS \_\_\_\_\_ MCF \_\_\_\_\_

	NEW USED	WEIGHT	SIZE	FROM	TO	MAX. ALLOW. PSI
CASING	<u>N</u>	<u>15.5</u>	<u>5 1/2</u>	<u>KB</u>	<u>6044</u>	<u>1500</u>
LINER						
TUBING						
OPEN HOLE			<u>7 7/8</u>	<u>SP</u>	<u>6075</u>	SHOTS/FT.
PERFORATIONS						
PERFORATIONS					<u>RELEASED</u>	
PERFORATIONS					<u>SEP 6 1994</u>	

PREVIOUS TREATMENT: DATE \_\_\_\_\_ TYPE \_\_\_\_\_ MATERIALS \_\_\_\_\_

TREATMENT INSTRUCTIONS: TREAT THRU TUBING  ANNULUS  CASING  TUBING/ANNULUS  HYDRAULIC HOLES  **CONFIDENTIAL**  
035 5 1/2" OV, 10 bbls H<sub>2</sub>O 100% H.C.P + 2% C.C., 4 Plocck, 165 5/8"  
2% C.C., 4 Plocck displ w 5 1/2" OV plus 4 H<sub>2</sub>O + 10% Mud  
2nd stage 10 bbls H<sub>2</sub>O 240 sec A-ann + " 2% C.C., 4 Plocck  
Displ w closing Plug + H<sub>2</sub>O

CUSTOMER OR HIS AGENT WARRANTS THE WELLS IN PROPER CONDITION TO RECEIVE THE PRODUCTS, SUPPLIES, MATERIALS, AND SERVICES

As consideration, the above-named Customer agrees: THIS CONTRACT MUST BE SIGNED BEFORE WORK IS COMMENCED

- a) To pay Halliburton in accord with the rates and terms stated in Halliburton's current price list. Invoices are payable NET by the 20th of the following month after date of invoice. Upon Customer's default in payment of Customer's account by the last day of the month following the month in which the invoice is dated, Customer agrees to pay interest thereon after default at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event it becomes necessary to employ attorneys to enforce collection of said account, Customer agrees to pay all collection costs and attorney fees in the amount of 20% of the amount of the unpaid account.
- b) To defend, indemnify, release and hold harmless Halliburton, its divisions, subsidiaries, parent and affiliated companies and the officers, directors, employees, agents and servants of all of them from and against any claims, liability, expenses, attorneys fees, and costs of defense to the extent permitted by law for:
  - Damage to property owned by, in the possession of, or leased by Customer, and/or the well owner (if different from Customer), including, but not limited to, surface and subsurface damage. The term "well owner" shall include working and royalty interest owners.
  - Reservoir, formation, or well loss or damage, subsurface incursions or any action in the nature thereof.
  - Personal injury or death or property damage (including, but not limited to, damage to the reservoir, formation or well), or any damages whatsoever, growing out of or in any way connected with or resulting from pollution, subsurface pressure, losing control of the well and/or a well blowout or the use of radioactive material.

The defense, indemnity, release and hold harmless obligations of Customer provided for in this Section b) and Section c) below shall apply to claims or liability even if caused or contributed to by Halliburton's negligence and liability or the unavailability of any vessel owned, operated, or furnished by Halliburton or any defect in the data, products, supplies, materials or equipment of Halliburton whether in the preparation, design, manufacture, distribution, or marketing thereof, or from a failure to warn any person of such defect. Such defense, indemnity, release and hold harmless obligations of Customer shall not apply where the claims or liability are caused by the gross negligence or willful misconduct of Halliburton. The term "Halliburton" as used in said Sections b) and c) shall mean Halliburton, its divisions, subsidiaries, parent and affiliated companies, and the officers, directors, employees, agents and servants of all of them.
- c) That because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, Halliburton is unable to guarantee the effectiveness of the products, supplies or materials, nor the results of any treatment or service, nor the accuracy of any chart interpretation, research analysis, job recommendation or other data furnished by Halliburton. Halliburton personnel will use their best efforts in gathering such information and their best judgment in interpreting it, but Customer agrees that Halliburton shall not be liable for and Customer shall indemnify Halliburton against any damages arising from the use of such information.
- d) That Halliburton warrants only title to the products, supplies and materials and that the same are free from defects in workmanship and materials. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE WHICH EXTEND BEYOND THE FOREGOING. Halliburton's liability and Customer's exclusive remedy in any cause of action (whether in contract, tort, breach of warranty or otherwise) arising out of the sale or use of any products, supplies or materials is expressly limited to the replacement of such products, supplies or materials in their return to Halliburton or, at Halliburton's option, to the allowance to the Customer of credit for the cost of such items. In no event shall Halliburton be liable for special, incidental, punitive or consequential damages.
- e) That Customer shall, at its risk and expense, attempt to recover any Halliburton equipment, tools or instruments, which are lost in the well and if such equipment, tools or instruments are not recovered, Customer shall pay Halliburton its replacement cost unless such loss is due to the sole negligence of Halliburton. If Halliburton equipment, tools or instruments are damaged in the well, Customer shall pay Halliburton the lesser of its replacement cost or the cost of repairs unless such damage is caused by the sole negligence of Halliburton. In the case of equipment, tools or instruments for surface operations, Customer shall in addition to the foregoing, be fully responsible for loss or damage to any of Halliburton's equipment, tools or instruments which occurs at any time after delivery to Customer of the landing tool returned to the landing, unless such loss or damage is caused by the sole negligence of Halliburton.
- f) To waive the provisions of the Deceptive Trade Practices - Consumer Protection Act, to the extent permitted by law.
- g) That this contract shall be governed by the law of the state where services are performed or materials are furnished.
- h) That Halliburton shall not be bound by any changes or modifications in this contract, except where such change or modification is made in writing by a duly authorized executive officer of Halliburton.

I HAVE READ AND UNDERSTAND THIS CONTRACT AND REPRESENT THAT I AM AUTHORIZED TO SIGN THE SAME AS CUSTOMER'S AGENT.

SIGNED Dale M. Arnold CUSTOMER  
DATE 5-15-93  
TIME 09:30 (A.M.) P.M.

We certify that the Fair Labor Standards Act of 1938, as amended, has been complied with in the production of goods and/or with respect to services furnished under this contract.

WELL DATA

FIELD \_\_\_\_\_ SEC. \_\_\_\_\_ TWP. \_\_\_\_\_ RNO. \_\_\_\_\_ COUNTY Meade STATE KS

FORMATION NAME ORIGINAL

FORMATION THICKNESS \_\_\_\_\_ FROM ORIGINAL

INITIAL PROD. OIL \_\_\_\_\_ BPD. WATER \_\_\_\_\_ BPD. GAS \_\_\_\_\_ MCFD

PRES. PROD. OIL \_\_\_\_\_ BPD. WATER \_\_\_\_\_ BPD. GAS \_\_\_\_\_ MCFD

COMPLETION DATE \_\_\_\_\_ MUD TYPE Chem MUD WT. 9.0

BEAHER TYPE DJ Tool SET AT 3314

BOTTOM HOLE TEMP. \_\_\_\_\_ PRESSURE \_\_\_\_\_

MISC. DATA \_\_\_\_\_ TOTAL DEPTH 6075

	NEW USES	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	N	155	5 1/2	KB	6044	1500
LINER						
TUBING						
OPEN HOLE			7 7/8	SP.	6075	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>5-15-93</u>	DATE <u>5-15-93</u>	DATE <u>5-15-93</u>	DATE <u>5-15-93</u>
TIME <u>04:00</u>	TIME <u>07:15</u>	TIME <u>14:00</u>	TIME <u>21:05</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>T Bohannon</u>	<u>40048 P.O.</u>	<u>Liberal KS</u>
<u>B Sauber</u>	<u>75374 P.</u>	<u>"</u>
<u>K Myers</u>	<u>3625</u>	<u>Hogotank</u>
<u>D Pierce</u>	<u>25813 B</u>	<u>"</u>
<u>B 1106</u>	<u>1221</u>	<u>"</u>

AUG 24

CONFIDENTIAL

DEPARTMENT Cement

DESCRIPTION OF JOB 035 5 1/2 O.V.

JOB DONE THRU: TUBING  CASING  ANNULUS  TBO/ANN.

CUSTOMER REPRESENTATIVE X Orlan M. Powell

HALLIBURTON OPERATOR T Bohannon COPIES REQUESTED \_\_\_\_\_

CEMENT DATA

STAGE	NUMBER OF BAGS	CEMENT	BRAND	BULK BAGGED	ADDITIVES	YIELD CU.FT./BK.	MIXED LBS./GAL.
<u>1</u>	<u>150</u>	<u>HLC A+</u>		<u>2800</u>	<u>4 1/2 flocc</u>	<u>2.1</u>	<u>12.3</u>
<u>2</u>	<u>165</u>	<u>Armit</u>		<u>2800</u>	<u>4 flocc</u>	<u>1.32</u>	<u>14.8</u>
<u>3</u>	<u>240</u>	<u>Armit</u>		<u>2800</u>	<u>4 flocc</u>	<u>1.32</u>	<u>14.8</u>

PRESSURES IN PSI \_\_\_\_\_ VOLUMES \_\_\_\_\_

CIRCULATING \_\_\_\_\_ DISPLACEMENT \_\_\_\_\_ PREFLUSH: BBL/GAL \_\_\_\_\_ TYPE H<sub>2</sub>O

BREAKDOWN \_\_\_\_\_ MAXIMUM \_\_\_\_\_ LOSS & DRDN: BBL/GAL \_\_\_\_\_ PAD: BBL/GAL \_\_\_\_\_

AVERAGE \_\_\_\_\_ FRACTURE GRADIENT \_\_\_\_\_ STATE PAID \_\_\_\_\_ TREATMENT: BBL/GAL \_\_\_\_\_ DISPL. BBL/GAL \_\_\_\_\_

SHUT-IN: INSTANT \_\_\_\_\_ C-MIN. \_\_\_\_\_ 18-MIN. \_\_\_\_\_ CEMENT CURRY: BBL/GAL \_\_\_\_\_

ORDERED \_\_\_\_\_ AVAILABLE \_\_\_\_\_ USED \_\_\_\_\_ HYDRAULIC HORSEPOWER \_\_\_\_\_

TREATING \_\_\_\_\_ DISP. \_\_\_\_\_ OVERALL \_\_\_\_\_

FEET 113 REASON Shot JT VOLUME: BBL/GAL 37.4 REMARKS + 56

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AUG 31 1993  
CONSERVATION DIVISION  
Wichita, Kansas

CUSTOMER: Great Expectation  
LEASE: Noninter South  
JOB TYPE: 035 AN.  
DATE: 5-15-93

**JOB LOG**

CUSTOMER *Giant Exploration* PAGE NO. 1

JOB TYPE *035* DATE *5-15-93*

FORM 2013 R-2

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	04:00							Call out Ready 09:30
	07:15							ON LOC Rig Start Lay Down D.P.
	11:00							Start 5k CSB in Hole
	14:00							circ 3 5k off Bottom
								on Bottom w CSB Hook up
								circ Hole
	15:30							Hook up To Cont
	1:35	6	10				200	Start H <sub>2</sub> O
		"	37.4				"	100 <sup>3k</sup> HLC P+
		"	38.7				"	165 <sup>3k</sup> P+
	15:53							Stop Wash-up To Pit Drop Plug
	15:57	6 1/2	63.9				100	Start Displ w H <sub>2</sub> O
		"	78.8				250	Displ Mech
	16:20	5	142.8				500	Total Plg Down
	16:22							Drop Pressure Tool
	16:40							Tool open at 1100 Psi
								Charge over To Rig circ Hole 4 hrs
	20:35							2nd Stage
		6 1/2	10				100	H <sub>2</sub> O
		"					"	Cont 240 <sup>3k</sup> P+
	20:52							Stop Drop Plug Wash-up on Pit
		6 1/2					100	Start Displ w H <sub>2</sub> O
		"					250	
	21:55		78.8				1100	Plug Down Tool Closed 1100 Psi
							<del>1000</del>	Release Back Holding
							0	

RELEASED

SEP 6 1994

FROM CONFIDENTIAL

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AUG 30 1993

CONSERVATION DIVISION  
Wichita, Kansas

Thank you Tim & Crew