

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

API NO. 15- 15-119-20902-00-00

County Meade

NW NE SE Sec. 02 Twp. 34 Rge. 30 X W

2200' Feet from S (circle one) Line of Section

880' 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 # 4

Field Name N/A

Injection Producing Formation N/A Novinger Sand

Elevation: Ground 2674' KB 2683'

Total Depth 5450' PBDT 5404'

Amount of Surface Pipe Set and Cemented at 1506' Feet

Multiple Stage Cementing Collar Used? Yes X No

If yes, show depth set \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from \_\_\_\_\_

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

Drilling Fluid Management Plan ALT 1 294 12-4-95  
(Data must be collected from the Reserve Pkt)

Chloride content \_\_\_\_\_ ppm Fluid volume 0 bbls

Dewatering method used natural evaporation

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

Operator Name N/A

Lease Name \_\_\_\_\_ License No. \_\_\_\_\_

Quarter DEC 19 1994 Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ Rng. \_\_\_\_\_ E/W

County \_\_\_\_\_ Docket No. \_\_\_\_\_  
CONSERVATION DIVISION  
WICHITA, KS

Operator: License # 9534

Name: Giant Exploration & Production Co

Address P.O. Box 2810

2200 Bloomfield Highway

City/State/Zip Farmington, NM 87499

Purchaser: N/A

Operator Contact Person: Diane G. Jaramillo

Phone (505) 326-3325

Contractor: Name: Murfin Drilling Co., Inc.

License: 30606

Wellsite Geologist: Dave Clark

Designate Type of Completion

X New Well Re-Entry Workover

Oil SWD S10W Temp. Abd.  
Gas X ENHR S1GW  
Dry Other (Core, WSW, Expl., Cathodic, etc)

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

Operator: RELEASED

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

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

Deepening Re-perforation SWD  
Plug Back \_\_\_\_\_ PBDT  
Commingled \_\_\_\_\_ Docket No. \_\_\_\_\_  
Dual Completion \_\_\_\_\_ Docket No. \_\_\_\_\_  
Other (SWD or Inj?) \_\_\_\_\_ Docket No. \_\_\_\_\_

09/14/94 09/22/94 11/07/94

Spud Date Date Reached TD Completion Date

ORIGINAL

CONFIDENTIAL

RELEASED

JAN 11 1996

FROM CONFIDENTIAL

RECEIVED

KANSAS CORPORATION COMMISSION

DEC 19 1994

Docket No. \_\_\_\_\_  
CONSERVATION DIVISION  
WICHITA, KS

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 well report 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.

Signature Paul R. Williams

Title Area Engineer Date DEC 13 1994

Subscribed and sworn to before me this 13<sup>th</sup> day of December 1994

Notary Public Dawn M. Tate

Date Commission Expires 7-13-97

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/Rop <input type="checkbox"/> NGPA
<input type="checkbox"/>	KGS	<input type="checkbox"/> Plug <input type="checkbox"/> Other
(Specify)		

Operator Name Giant Exploration & Production Lease Name Novinger South Well # 4

Sec. 02 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  Yes  No  
 (Attach Additional Sheets.)  
 Samples Sent to Geological Survey  Yes  No  
 Cores Taken  Yes  No  
 Electric Log Run  Yes  No  
 (Submit Copy.)  
 List All E.Logs Run:  
 DIL/GR Neutron/Density, Microlog,  
 Sonic

Name	Top	Datum
Wreford	3065'	-382'
Council Grove	3174'	-491'
Heebner	4440'	-1757'
Toronto	4462'	-1779'
Lansing	4646'	-1963'
Kansas City A	5078'	-2395'
Kansas City B	5117'	-2434'
Marmaton A	5251'	-2568'
Novinger	5310'	-2627'
Base Novinger	5401'	-2718'

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	30"	20"	54#	40'	Ready Mix	3.5 yds	N/A
Surface Casing	12-1/4"	8-5/8"	24"	1506'	HCL Prem Plus	510	2% CaCl
Production Csg	7-7/8"	5-1/2"	15.5#	5447.30'	Hal EA-2 Prem Plus	230	7% EA-2, 15% Salt, 1% CaCl

ADDITIONAL CEMENTING/SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

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 ispf	5342'-5358'		

TUBING RECORD	Size	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
	2-3/8", 4.7#	5311'	5311'	
Date of First, Resumed Production, SWD or Inj.	Producing Method <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input checked="" type="checkbox"/> Injection Well Other (Explain)			
12/15/94 (proposed)				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity
	N/A			

Disposition of Gas:  Vented  Sold  Used on Lease (If vented, submit ACO-18.)

METHOD OF COMPLETION  Open Hole  Perf.  Dually Comp.  Conningled

Production Interval 5342'-5358'

Other (Specify) Injection Well

API#15-119-20902

# TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Drill-Stem Test Data

CONFIDENTIAL

ORIGINAL

Well Name NOVINGER S-#4 Test No. 1 Date 9/21/94  
 Company GIANT EXPLORATION PRODUCTION CO Zone NOVINGER  
 Address PO BOX 2810 FARMINGTON NM 87499 Elevation 2669  
 Co. Rep./Geo. JERRY DEAN Cont. MURFIN #25 Est. Ft. of Pay 4  
 Location: Sec. 2 Twp. 34S Rge. 30W Co. MEADE State KS

Interval Tested 5308-5315 Drill Pipe Size 4.5" XH  
 Anchor Length 7 Wt. Pipe I.D. - 2.7 Ft. Run \_\_\_\_\_  
 Top Packer Depth 5303 Drill Collar - 2.25 Ft. Run 536  
 Bottom Packer Depth 5308 Mud Wt. 9.2 lb/Gal.  
 Total Depth 5315 Viscosity 45 Filtrate 10.4

Tool Open @ 8:05 A.M. Initial Blow SURFACE TO BOTTOM OF BUCKET IMMEDIATELY GAS TO SURFACE  
IN 14 MIN  
 Final Blow SURFACE TO BOTTOM OF BUCKET IN 3 1/2 MIN

Recovery - Total Feet 1550 Flush Tool? NO  
 Rec. 3750 Feet of GAS IN PIPE  
 Rec. 330 Feet of GASSY MUD CUT OIL 59%GAS/40%OIL/1%MUD  
 Rec. 1220 Feet of MUD CUT WATER 99%WATER/1%MUD

4.12  
5315  
2683  
2673

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

JAN 11 1996

FROM CONFIDENTIAL

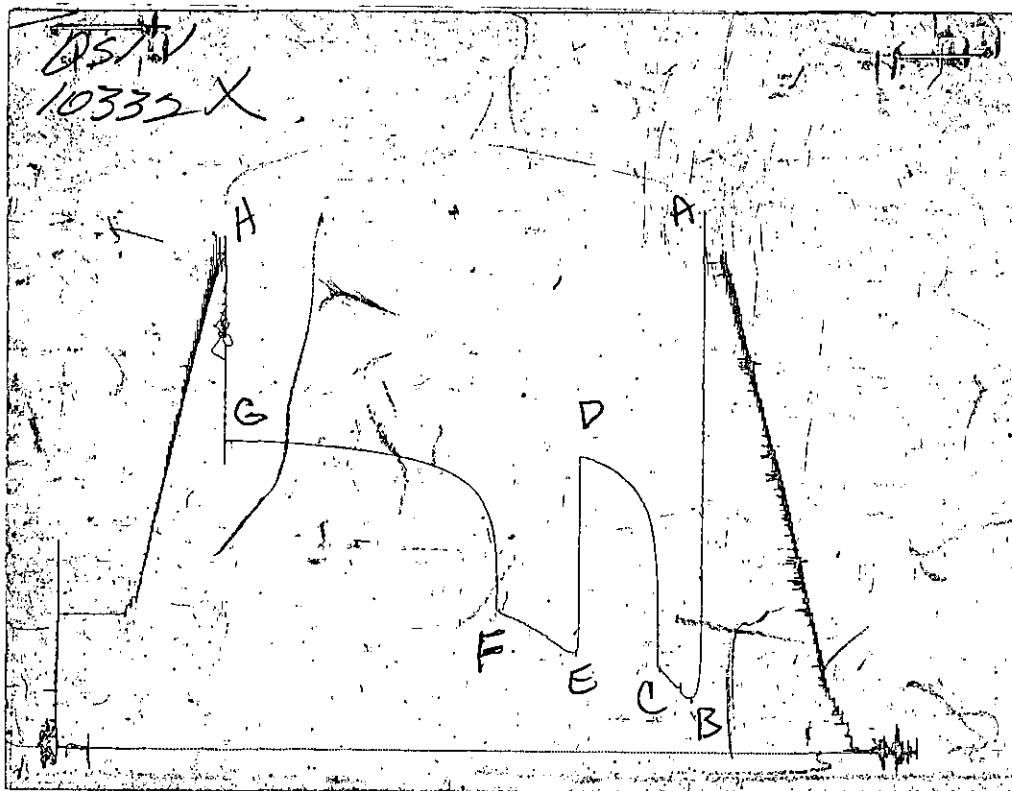
BHT 126 °F Gravity 45 °API @ 70 °F Corrected Gravity 44 °API  
 RW 0.08 @ 86 °F Chlorides 78000 ppm Recovery Chlorides 4000 ppm System

(A) Initial Hydrostatic Mud 2594.5 PSI AK1 Recorder No. 11086 Range 4350  
 (B) First Initial Flow Pressure 288.4 PSI @ (depth) 5309 w / Clock No. 25828  
 (C) First Final Flow Pressure 448.3 PSI AK1 Recorder No. 10332 Range 4050  
 (D) Initial Shut-in Pressure 1562.2 PSI @ (depth) 5312 w / Clock No. 25114  
 (E) Second Initial Flow Pressure 529.4 PSI AK1 Recorder No. \_\_\_\_\_ Range \_\_\_\_\_  
 (F) Second Final Flow Pressure 744.9 PSI @ (depth) \_\_\_\_\_ w / Clock No. \_\_\_\_\_  
 (G) Final Shut-in Pressure 1640.8 PSI Initial Opening 30  
 (H) Final Hydrostatic Mud 2574.1 PSI Initial Shut-in 60 Final Shut-in \_\_\_\_\_

RECEIVED  
 STATE CORPORATION COMMISSION  
 DEC 02 1994  
 60  
 CONSERVATION DIVISION  
 WICHITA, KANSAS

Our Representative GARY SPEER

# CHART PAGE



	FIELD READING	OFFICE READING
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(A) INITIAL HYDROSTATIC MUD	2579	2594.5
(B) FIRST INITIAL FLOW PRESSURE	263	288.4
(C) FIRST FINAL FLOW PRESSURE	455	448.3
(D) INITIAL CLOSED-IN PRESSURE	1569	1562.2
(E) SECOND INITIAL FLOW PRESSURE	526	529.4
(F) SECOND FINAL FLOW PRESSURE	739	744.9
(G) FINAL CLOSED-IN PRESSURE	1630	1640.8
(H) FINAL HYDROSTATIC MUD	2579	2574.1

INITIAL FLOW

RECORDER 10332

DST # 1

TIME(MIN)	PRESSURE	<>PRESSURE
3	288.4	288.4
6	293.5	5.1
9	305.6	12.1
12	321.8	16.2
15	353.2	31.4
18	374.4	21.2
21	397.7	23.3
24	418.0	20.3
27	438.2	20.2
30	448.3	10.1

FINAL FLOW

RECORDER 10332

DST # 1

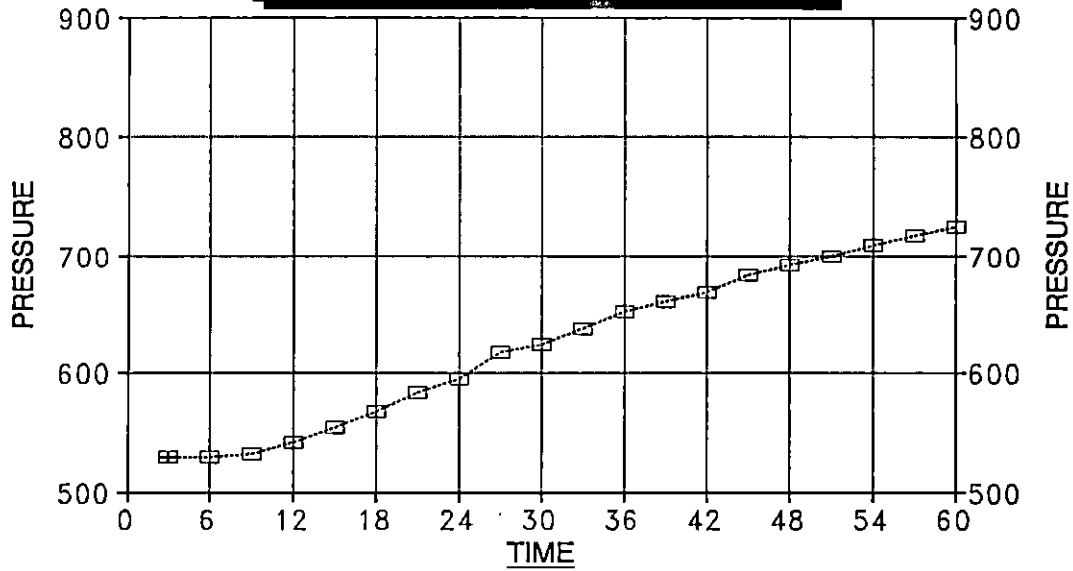
TIME(MIN)      PRESSURE <> PRESSURE

---

3	529.4	529.4
6	529.4	7.9
9	532.5	3.1
12	541.6	9.1
15	554.8	13.2
18	568.0	13.2
21	583.3	15.3
24	594.5	11.2
27	616.8	22.3
30	623.9	7.1
33	637.1	13.2
36	651.4	14.3
39	660.5	9.1
42	667.6	7.1
45	682.9	15.3
48	692.0	9.1
51	699.1	7.1
54	709.3	10.2
57	716.4	7.1
60	724.5	8.1
63	735.7	11.2
66	744.9	9.2

# DELTA T DELTA P

FINAL FLOW / DST #1



---□--- NOVINGER S-#4DST #1

INITIAL PRODUCTION CORRECTED TO PSEUDO STEADY FLOW STATE:

213.059

NOVINGER S-#4  
INITIAL

DST #1  
SHUTIN  
30 INITIAL FLOW TIME SLOPE 771.08 PSI/CYCLE  
P\* 1702.08 PSI

	TIME(MIN)	Pws (psi)	Log Horn T	<> PRESSURE	Horn T
	3	1114.9	1.041	1114.9	11
	6	1211.6	0.778	96.7	6
	9	1284.2	0.637	72.6	4
	12	1332.6	0.544	48.4	4
	15	1363.9	0.477	31.3	3
	18	1394.1	0.426	30.2	3
	21	1414.3	0.385	20.2	2
	24	1438.5	0.352	24.2	2
	27	1454.7	0.325	16.2	2
	30	1472.9	0.301	18.2	2
	33	1488.0	0.281	15.1	2
X	36	1499.1	0.263	11.1	2
	39	1512.3	0.248	13.2	2
	42	1523.4	0.234	11.1	2
	45	1531.6	0.222	8.2	2
	48	1538.7	0.211	7.1	2
	51	1549.9	0.201	11.2	2
	54	1557.1	0.192	7.2	2
	57	1562.2	0.184	5.1	2
X	60	1566.3	0.176	4.1	2



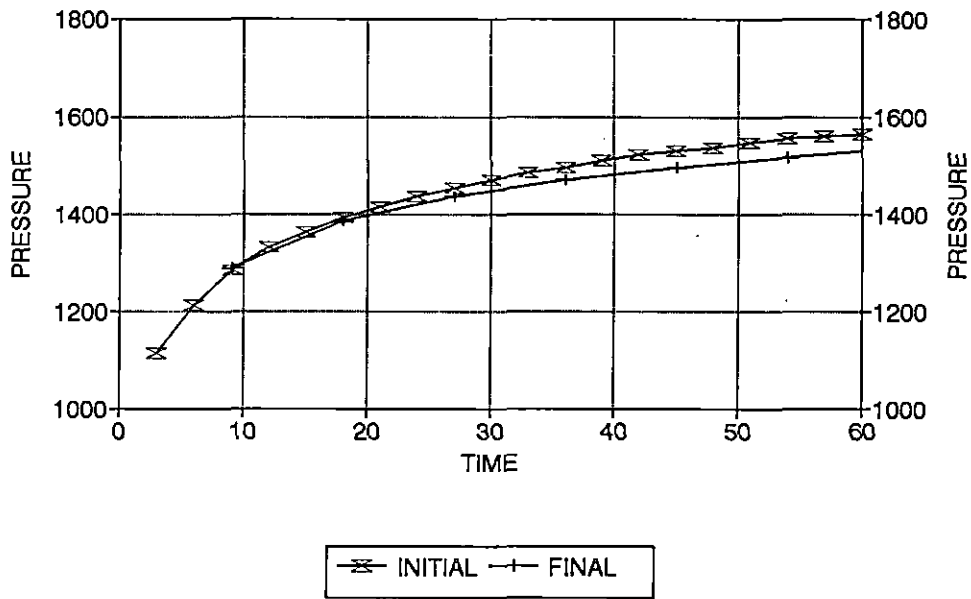
NOVINGER S-#4  
FINAL

DST #1  
SHUTIN

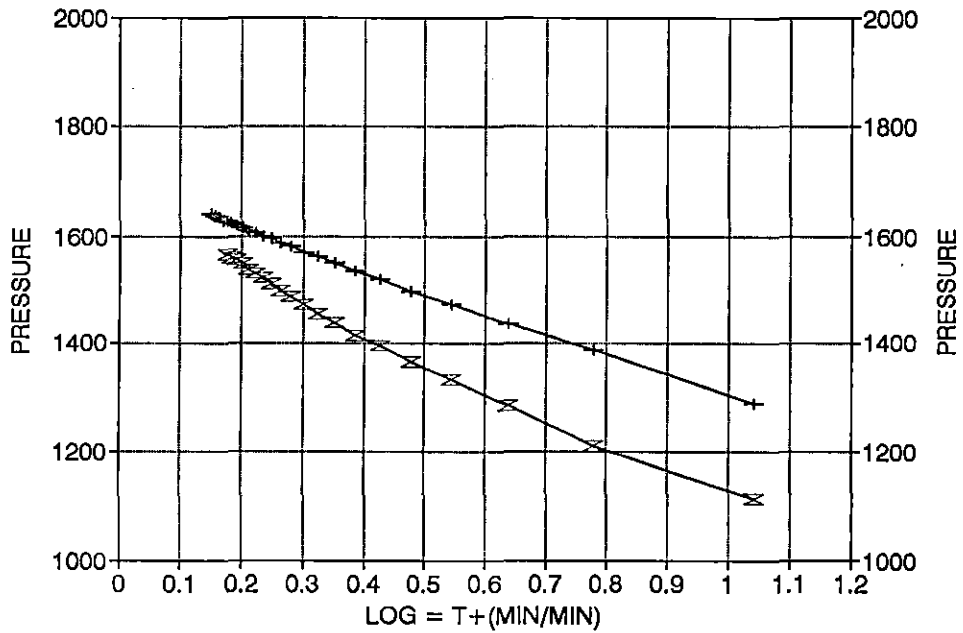
90 TOTAL FLOW TIME SLOPE 396.01 PSI/CYCLE  
P\* 1700.70 PSI

	TIME(MIN)	Pws(psi)	Log Horn T	<> PRESSURE	Horn T
X	9	1288.3	1.041	1288.3	11
	18	1387.1	0.778	98.8	6
	27	1437.5	0.637	50.4	4
	36	1472.9	0.544	35.4	4
	45	1498.1	0.477	25.2	3
	54	1520.4	0.426	22.3	3
	63	1536.7	0.385	16.3	2
	72	1552.0	0.352	15.3	2
	81	1564.2	0.325	12.2	2
	90	1571.6	0.301	7.4	2
	99	1581.6	0.281	10.0	2
	108	1588.7	0.263	7.1	2
	117	1596.9	0.248	8.2	2
	126	1602.0	0.234	5.1	2
	135	1607.1	0.222	5.1	2
	144	1611.2	0.211	4.1	2
	153	1617.3	0.201	6.1	2
	162	1620.4	0.192	3.1	2
	171	1623.4	0.184	3.0	2
	180	1627.5	0.176	4.1	2
	189	1630.6	0.169	3.1	1
	198	1634.6	0.163	4.0	1
	207	1637.0	0.157	2.4	1
X	216	1640.8	0.151	3.8	1

# NOVINGER S-#4 DST #1 DELTA T DELTA P



# HORNER PLOT

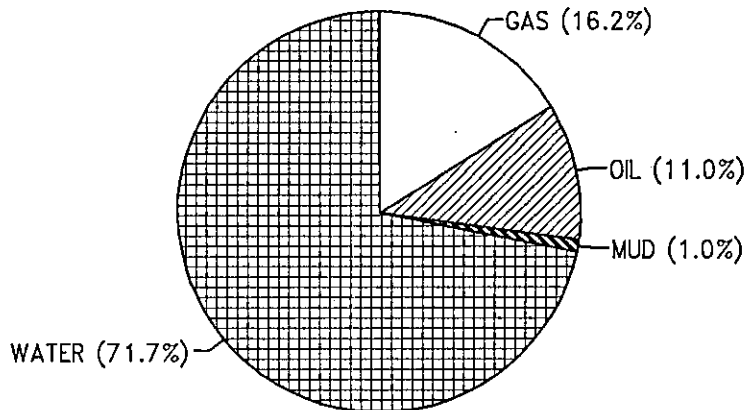


CALCULATED RECOVERY ANALYSIS

DST 1 TICKET # 7250

SAMPLE #	TOTAL FEET	GAS		OIL		WATER		MUD	
		%	FEET	%	FEET	%	FEET	%	FEET
DRILL 1			0		0		0		0
PIPE 2	330	59	194.7	40	132		0	1	3.3
3	684		0		0	99	677.16	1	6.84
4			0		0		0		0
5			0		0		0		0
6			0		0		0		0
WEIGHT 1			0		0		0		0
PIPE 2			0		0		0		0
3			0		0		0		0
4			0		0		0		0
DRILL 1	536		0		0	99	530.64	1	5.36
COLLAR 2			0		0		0		0
3			0		0		0		0
4			0		0		0		0
5			0		0		0		0
TOTAL	1550		194.7		132		1207.8		15.5

		HRS OPEN	BBL/DAY
BBL OIL=	1.87704	*	1.5 30.03264
BBL WATER=	12.2240448	*	195.58472
BBL MUD=	0.1704012		
BBL GAS =	2.768634		



GAS VOLUME REPORT

GIANT EXPLORATION PRODUCTION CO

NOVINGER S-#4

DST # 1

MIN	IN WATER	ORIFICE	MCF/D	MIN	IN WATE	ORIFICE	MCF/D
20	23	0.25	8.05	25	8	0.25	4.76
30	24	0.25	9.79	30	24	0.25	8.22
				40	50	0.25	11.9
				50	56	0.25	12.6
				60	60	0.25	13

Remarks:

FLUID SAMPLER DATA

RELEASED

JAN 11 1996

Ticket No.: 7250

Date: 9/21/94

FROM CONFIDENTIAL

Company: GIANT EXPLORATION PRODUCTION CO

Lease: NOVINGER S-#4

Test No.: 1

County: MEADE

Sec.: 2

Twp.: 34S

Rng.: 30W

SAMPLER RECOVERY

Gas 1900

Oil 900

Mud

Water 1200

Other

Pressure 1350

TOTAL

SAMPLER ANALYSIS

Resistivity 0.09 ohms@ 77 F

Chlorides 80000 ppm.

Gravity corrected @60F

PIT MUD ANALYSIS

Chlorides 4000

Resistivity 1.5 ohms@ 75 F

Viscosity 45

Mud Wt. 9.2

Filtrate 10.4

Other L.C.M. -#1

PIPE RECOVERY

TOP

Resistivity 0.08 ohms@ 86 F

Chlorides 78000 ppm

MIDDLE

Resistivity ohms@ F

Chlorides ppm

BOTTOM

Resistivity ohms@ F

Chlorides ppm



CHARGE TO:  
**GRANT Exploration & Production**  
 ADDRESS  
 CITY, STATE, ZIP CODE

COPY  
 TICKET No. **635165 - 3**  
 PAGE 1 OF 2

FORM 1906 R-13

SERVICE LOCATIONS 1025540 LIBERTY	WELL/PROJECT NO. 14	LEASE BOUNGER	COUNTY/PARISH MEADE	STATE KS	CITY/OFFSHORE LOCATION	DATE 9-23-94	OWNER SAME
2025535 Hugoton	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	NITROGEN JOB? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	CONTRACTOR MURFEN Drilg.	RIG NAME/NO. 25	SHIPPED VIA HES	DELIVERED TO LOCATION	ORDER NO.
3.	WELL TYPE 02	WELL CATEGORY 01	JOB PURPOSE 035	WELL PERMIT NO.	WELL LOCATION		
4.	REFERRAL LOCATION	INVOICE INSTRUCTIONS					

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING	DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
000-117			MILEAGE	10	56 m	2	75	154	00
001-016			Pump Charge	6	112	5451	FT	1895	00
030-016			SWEEPER Top Plug	5 1/2	IN	1	EA	60	00
12A	822.205		Req. GUEDE SHOE	5 1/2	IN	1	EA	121	00
28	835.10211		P.D.F. Float Collar	5 1/2	IN	1	EA	675	00
40	806.60022		CENTRALIZER	5 1/2	IN	6	EA	44	00
166	806.72039		FASGREP	5 1/2	IN	1	EA	12	00
320	806.70030		CMT BASKET	5 1/2	IN	1	EA	110	00
350	890.10800		WELD A.	1	16	1	EA	14	50
018-317			Super Flotfit	1	5K	10	EA	100	00

FROM CONFIDENTIAL  
 JAN 11 1996  
 RELEASED  
 CONSERVATION DIVISION  
 WIGHT

CONFIDENTIAL  
 RECEIVED  
 STATE COMMISSION  
 DEC 12 2004

ORIGINAL

<b>LEGAL TERMS:</b> Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, <b>PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY</b> provisions. CUSTOMER OR CUSTOMER'S AGENT SIGNATURE X <i>David E. Rice</i> DATE SIGNED _____ TIME SIGNED _____ <input type="checkbox"/> A.M. <input type="checkbox"/> P.M. <input type="checkbox"/> do <input type="checkbox"/> do not require IPC (Instrument Protection). <input type="checkbox"/> Not offered	SUB SURFACE SAFETY VALVE WAS: <input type="checkbox"/> PULLED & RETURN <input type="checkbox"/> PULLED <input type="checkbox"/> RUN	SURVEY: _____ AGREE _____ UN-DECIDED _____ DIS-AGREE _____	PAGE TOTAL <b>4,305 50</b>	
	TYPE LOCK _____ DEPTH _____ BEAN SIZE _____ SPACERS _____	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? <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND	FROM CONTINUATION PAGE(S) <b>7,085 01</b>	
	TYPE OF EQUALIZING SUB. _____ CASING PRESSURE _____ TUBING SIZE _____ TUBING PRESSURE _____ WELL DEPTH _____			SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE <b>11,390 51</b>
	TREE CONNECTION _____ TYPE VALVE _____			

**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) X <i>David E. Rice</i>	HALLIBURTON OPERATOR/ENGINEER <i>Roger Elwood</i>	EMP # <i>D.4367</i>	HALLIBURTON APPROVAL
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JOB LOG HAL-2013-C

DATE 9-23-94 PAGE NO. 1

CUSTOMER GEANT Expl. WELL NO. 4 LEASE NORTON LEASE JOB TYPE 5 1/2 Lining string TICKET NO. 1035165

Table with columns: CHART NO., TIME, RATE (BPM), VOLUME (BBL) (GAL), PUMPS (T, C), PRESSURE (PSI) (TUBING, CASING), DESCRIPTION OF OPERATION AND MATERIALS. Includes entries for 'START CASING', 'START SUPERFLUSH', 'START CMT MIXED @ 15.5 lb/gal', 'START DISPLACEMENT', and 'Job Complete'.

ORIGINAL

THANK YOU FOR CALLING HALLIBURTON ROBERT & CREW

CONFIDENTIAL

RELEASED

JAN 17 1996

FROM CONFIDENTIAL







CHARGE TO: Grant Exp.  
 ADDRESS:  
 CITY, STATE, ZIP CODE:

COPY

TICKET

No.

677972 - 8

PAGE 1 OF 2

FORM 1906 R-13

SERVICE LOCATIONS 1. <u>1.2 local 025540</u>	WELL/PROJECT NO. <u>4</u>	LEASE <u>Novinger</u>	COUNTY/PARISH <u>Madison</u>	STATE <u>KS</u>	CITY/OFFSHORE LOCATION	DATE <u>9-15-94</u>	OWNER <u>Grant Exp.</u>
2. <u>Hogston 025535</u>	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	NITROGEN JOB? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	CONTRACTOR <u>Muehlen</u>	RIG NAME/NO. <u>25</u>	SHIPPED VIA <u>air</u>	DELIVERED TO <u>loc</u>	ORDER NO.
3.	WELL TYPE <u>01</u>	WELL CATEGORY <u>01</u>	JOB PURPOSE <u>010</u>	WELL PERMIT NO.	WELL LOCATION		
4.	REFERRAL LOCATION	INVOICE INSTRUCTIONS					

PRICE REFERENCE	SECONDARY REFERENCE PART NUMBER	ACCOUNTING LOC ACCT DF	DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
000-17		1	MILEAGE	60	mi			2.75	165.00
001-016		1	Pump charge	1505	ft				13.20.00
035-016		1	Top Rubber Plug	1	EA	27%			120.00
12A	825-217	1	Grade shoe	1	EA	8%			216.00
24A	815-19502	1	Insert fit.	1	EA	8%			171.00
27	815-19415	1	Auto Filter Assy	1	EA	17%			55.00
40	806-11048	1	Centralizer	3	EA	87%		65.00	195.00
60	850-14802	1	<del>12A</del>						141.00

WICHITA, KANSAS

RECEIVED  
STATEMENT  
AT THE COMMISSION  
OCT 2 1994

CONFIDENTIAL

FROM CONFIDENTIAL

RELEASED  
JAN 1 1995

ORIGINAL

**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 [Signature]  
 DATE SIGNED: 9-15-94 TIME SIGNED: 9:15  A.M.  P.M.

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

SUB SURFACE SAFETY VALVE WAS: <input type="checkbox"/> OPENED & RETURN <input type="checkbox"/> PULLED <input type="checkbox"/> RUN	<b>SURVEY</b>	AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL	2242.00
TYPE LOCK	DEPTH	OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?			FROM CONTINUATION PAGE(S)	9948.40
BEAN SIZE	SPACERS	WE UNDERSTOOD AND MET YOUR NEEDS?				
TYPE OF EQUALIZING SUB.	CASING PRESSURE	OUR SERVICE WAS PERFORMED WITHOUT DELAY?				
TUBING SIZE	TUBING PRESSURE	WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				
TREE CONNECTION	TYPE VALVE	ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO			SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE	12,190.40
		<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND				

**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): [Signature]  
 CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE): X [Signature]  
 HALLIBURTON OPERATOR/ENGINEER: [Signature] EMP # 17241  
 HALLIBURTON APPROVAL:



**JOB LOG FORM 2013 R-4**

CUSTOMER <i>BIANT EID</i>	WELL NO. <i>4</i>	LEASE <i>NOVINGER</i>	JOB TYPE <i>8 7/8" Sgdn</i>	TICKET NO. <i>67772</i>
------------------------------	----------------------	--------------------------	--------------------------------	----------------------------

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	22 30							called out
	20 15							on loc sl" 24g.
	8 15	6	10				150	Drop flow
	8 17	6	157				200	inst 2 rd cement
	8 45	6	35				210	inst 1 rd cement
	8 54							inst 1 rd plug
	8 55							inst 2 rd cement
	9 10		83					inst 1 rd cement
	9 15	6	93				1200	Plug down
	9 16							inst 1 rd on
								inst 1 rd on

ORIGINAL

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RELEASED

JAN 11 1996

FROM CONFIDENTIAL



**JO<sup>n</sup> SUMMARY**

HALLIBURTON DIVISION  
HALLIBURTON LOCATION L. BERAL

BILLED ON TICKET NO. 677972

**WELL DATA**

FIELD \_\_\_\_\_ SEC \_\_\_\_\_ TWP \_\_\_\_\_ RNG \_\_\_\_\_ COUNTY Alameda STATE Illinois

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	<u>2</u>	<u>24</u>	<u>8 7/8</u>	<u>0</u>	<u>1505</u>	
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

**JOB DATA**

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>9-17-94</u> TIME <u>22:30</u>	DATE <u>9-15-94</u> TIME <u>20:15</u>	DATE <u>9-15-94</u> TIME <u>8:15</u>	DATE <u>9-15-94</u> TIME <u>9:15</u>

**TOOLS AND ACCESSORIES**

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE <u>2 1/2 8 7/8</u>	<u>1</u>	<u>Halliburton</u>
CENTRALIZERS <u>3-4 1 7/8</u>	<u>3</u>	
BOTTOM PLUG		
TOP PLUG <u>5 1/2 8 7/8</u>	<u>1</u>	
HEAD		
PACKER		
OTHER <u>1 unit 8 7/8 8 7/8</u>	<u>1</u>	

**PERSONNEL AND SERVICE UNITS**

NAME	UNIT NO. & TYPE	LOCATION
<u>K. B. Bernal</u>	<u>40045</u>	<u>L. BERAL</u>
<u>T. Jones</u>	<u>52276</u>	<u>"</u>
<u>D. M. Taylor</u>	<u>51584</u>	<u>Illigokou</u>
<u>D. H. Moore</u>	<u>76200</u>	<u>"</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. \_\_\_\_\_ %  
 ACID TYPE \_\_\_\_\_ GAL. **RELEASED** %  
 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. \_\_\_\_\_  
 PERFPAC BALLS TYPE \_\_\_\_\_ QTY. \_\_\_\_\_  
 OTHER \_\_\_\_\_  
 OTHER \_\_\_\_\_

**CONFIDENTIAL ORIGINAL**

DEPARTMENT encl  
 DESCRIPTION OF JOB encl 1505' at 8 7/8" casing  
 JOB DONE THRU: TUBING  CASING  ANNULUS  TBG./ANN.   
 CUSTOMER REPRESENTATIVE **X** Denise E. Bernal  
 HALLIBURTON OPERATOR K. Bernal COPIES REQUESTED \_\_\_\_\_

**CEMENT DATA**

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<u>510</u>	<u>HEAVY A'</u>		<u>3</u>	<u>100 gal. 1/2" #1/8" hole</u>	<u>2.06</u>	<u>12.3</u>
	<u>150</u>	<u>A'</u>		<u>3</u>	<u>23 gal. 1/2" #1/8" hole</u>	<u>1.32</u>	<u>14.8</u>

**PRESSURES IN PSI**

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 42 REASON shut in

**SUMMARY**

**VOLUMES**

PRESLUSH: BBL.-GAL. 10 TYPE FW  
 LOAD & BKDN: BBL.-GAL. \_\_\_\_\_ PAD: BBL.-GAL. \_\_\_\_\_  
 TREATMENT: BBL.-GAL. \_\_\_\_\_ DISPL: BBL.-GAL. 93  
 CEMENT SLURRY: BBL.-GAL. 137 3.5  
 TOTAL VOLUME: BBL.-GAL. \_\_\_\_\_

**REMARKS**

S.R. Jones