

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

Operator: License # 5428

Name: Graves Drilling Co., Inc.

Address P.O. Box 8250

City/State/Zip Wichita, KS 67208

Purchaser: Texaco Trading & Transportation

Operator Contact Person: Fredrick W. Stumb

Phone ( 316 ) 687-2777

Contractor: Name: Duke Drilling Co., Inc.

License: 5929

Wellsite Geologist: Dean Pattisson

Designate Type of Completion

New Well  Re-Entry  Workover  
 Oil  SWD  SLOW  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. \_\_\_\_\_

05-15-92 05-23-92 7-29-92  
Spud Date Date Reached TD Completion Date

API NO. 15- 077-21,257-0000

County Harper

W/2 SW - SW - Sec. 18 Twp. 31 Rge. 8 X E W

660 Feet from (S)N (circle one) Line of Section

330 Feet from E(W) (circle one) Line of Section

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

Lease Name Yates Well # 3

Field Name Spivey Grabs

Producing Formation Mississippi

Elevation: Ground 1603 KB 1611

Total Depth 4465' PBTB \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at 252' Feet

Multiple Stage Cementing Collar Used?  Yes  No

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

If Alternate II completion, \_\_\_\_\_  
feet depth to \_\_\_\_\_  ex cmt.

Drilling Fluid Management Plan \_\_\_\_\_  
(Data must be collected from the Reserve \_\_\_\_\_)

Chloride content 30,000 \_\_\_\_\_ 200 bbls

Dewatering method used Hauled

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

Operator Name Attica Gas Ventures Corp., Inc.

Lease Name Mae Simon SWD License No. 5039

NW Quarter Sec. 27 Twp. 32S S Rng. 10W E/W

County Harper Docket No. 21,250

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 Fredrick W. Stumb  
Title Geologist Date 8-26-92

Subscribed and sworn to before me this 26th day of August, 19 92.

Notary Public Phyllis A. Freeman  
Date Commission Expires \_\_\_\_\_  
PHYLIS A. FREEMAN  
NOTARY PUBLIC  
STATE OF KANSAS  
My Appl. Exp. 6-2-94

K.C.C. OFFICE USE ONLY  
F \_\_\_\_\_ Letter of Confidentiality Attached  
C \_\_\_\_\_ Wireline Log Received  
C \_\_\_\_\_ Geologist Report Received  
Distribution  
 KCC  SWD/Rep  NGPA  
 KGS  Plug  Other (Specify) \_\_\_\_\_

SIDE TWO

Operator Name Graves Drilling Co., Inc. Lease Name Yates Well # 3  
 Sec. 18 Twp. 31 Rge. 8  East County Harper  
 West

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.)

Log Formation (Top), Depth and Datum  Sample

Name	Top	Datum
Heebner	3411'	(-1798')
Lansing	3606'	(-1993')
Stark	4047'	(-2734')
Mississippi	4357'	(-2744')
Total Depth	4444'	(-2831')

List All E.Logs Run:

Dual Compensated Porosity Log  
 Dual Induction Log  
 Sonic Cement Bond Log

CASING RECORD  New  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
Surface	12 1/4"	8-5/8"	23#	252'	60/40poz	200	2% gel 3% cc
Production	7-7/8"	5 1/2"	14#	4463'	50/50poz	125	2% gel 10% salt

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
Two	4388'-4394'	100 gals. 7 1/2% Frac w/1000#/100; 26000# 12/20 sd; 10000# 8/16 sd & 1930 bbls. gelled wtr.	

TUBING RECORD Size 2 1/2" Set At 4365' Packer At none Liner Run  Yes  No

Date of First, Resumed Production, SWD or Inj. July 29, 1992 Producing Method  Flowing  Pumping  Gas Lift  Other (Explain)

Estimated Production Per 24 Hours Oil 7 Bbls. Gas 100 Mcf Water 80 Bbls. Gas-Oil Ratio 14285 Gravity 30

Disposition of Gas:

METHOD OF COMPLETION

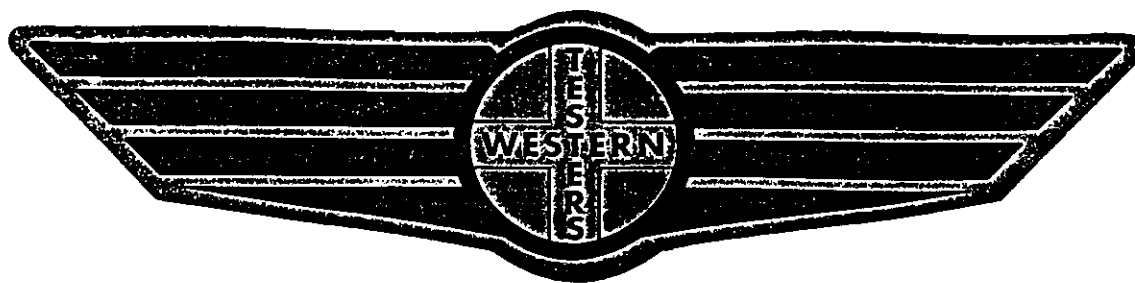
Production Interval

Vented  Sold  Used on Lease  Open Hole  Perf.  Dually Comp.  Commingled

(If vented, submit ACD-18.)

15-077-21257-0000

# FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1 - 800 - 688 - 7021

COMPANY GRAVES DRILLING CO., INC. LEASE & WELL NO. YATES #3 SEC. 18 TWP. 31S RGE. 8W T1S1 NO. 1 DATE 5/21/92

DST REPORT

GENERAL INFORMATION

DATE : 5/21/92	TICKET : 18156
CUSTOMER : GRAVES DRILLING CO., INC.	LEASE : YATES
WELL : 3 TEST: 1	GEOLOGIST: DEAN PATTISSON
ELEVATION: 1613 KB	FORMATION: MISSISSIPPI
SECTION : 18	TOWNSHIP : 31S
RANGE : 8W COUNTY: HARPER	STATE : KS
GAUGE SN#: 10270 RANGE : 4150	CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 4360.00 ft	TO: 4380.00 ft	TVD: 4380.0 ft
DEPTH OF SELECTIVE ZONE:		TEST TYPE: GAS
DEPTH OF RECORDERS: 4372.0 ft	4375.0 ft	
TEMPERATURE: 122.0		

DRILL COLLAR LENGTH: 0.0 ft	I.D.:	0.000 in
WEIGHT PIPE LENGTH : 300.0 ft	I.D.:	2.700 in
DRILL PIPE LENGTH : 4040.0 ft	I.D.:	3.800 in
TEST TOOL LENGTH : 20.0 ft	TOOL SIZE :	5.500 in
ANCHOR LENGTH : 20.0 ft	ANCHOR SIZE:	5.500 in
SURFACE CHOKE SIZE : 0.750 in	BOTTOM CHOKE SIZE:	0.750 in
MAIN HOLE SIZE : 7.875 in	TOOL JOINT SIZE :	4.5XH
PACKER DEPTH: 4355.0 ft	SIZE:	6.630 in
PACKER DEPTH: 4360.0 ft	SIZE:	6.630 in
PACKER DEPTH: 0.0 ft	SIZE:	0.000 in
PACKER DEPTH: 0.0 ft	SIZE:	0.000 in

MUD INFORMATION

DRILLING CON. : DUKE DRLG. RIG 2	VISCOSITY : 50.00 cp
MUD TYPE : CHEMICAL	WATER LOSS: 9.600 cc
WEIGHT : 9.200 ppg	SERIAL NUMBER:
CHLORIDES : 6000 ppm	REVERSED OUT?: NO
JARS-MAKE :	
DID WELL FLOW?: YES	

COMMENTS

Comment

INITIAL FLOW PERIOD STRONG BLOW, GAS TO SURFACE IN 12 MINUTES.  
FINAL FLOW PERIOD GAS TO SURFACE. SEE FLOW CHART.

*David*  
8-27-92

**DST REPORT (CONTINUED)**

**COMMENTS (CONTINUED)**

Comment

GEOLOGIST KEPT OUTSIDE CHART.

**FLUID RECOVERY**

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
90.0	3.0	11.0	35.0	51.0	OIL & GAS CUT WATERY MUD
120.0	2.0	12.0	68.0	18.0	OIL & GAS CUT MUDDY WATER
120.0	1.0	8.0	91.0	0.0	SLY OIL CUT WATER
0.0	0.0	0.0	0.0	0.0	CHLORIDES 65000 P.P.M.

**RATE INFORMATION**

OIL VOLUME:	0.0509 STB	TOTAL FLOW TIME:	90.0000 min.
GAS VOLUME:	1.4766 SCF	AVERAGE OIL RATE:	1.4285 STB/D
MUD VOLUME:	0.5842 STB	AVERAGE WATER RATE:	35.0862 STB/D
WATER VOLUME:	1.6471 STB		
TOTAL FLUID :	2.2822 STB		

**FIELD TIME & PRESSURE INFORMATION**

INITIAL HYDROSTATIC PRESSURE: 2181.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	72.00	72.00
INITIAL SHUT-IN	60.00		946.00
FINAL FLOW	60.00	83.00	114.00
FINAL SHUT-IN	90.00		935.00

FINAL HYDROSTATIC PRESSURE: 2150.00

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 8-27-92  
 CONSERVATION DIVISION  
 WICHITA, KS

DST REPORT (CONTINUED)

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2223.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	79.00	83.00
INITIAL SHUT-IN	60.00		964.00
FINAL FLOW	60.00	102.00	139.00
FINAL SHUT-IN	90.00		958.00

FINAL HYDROSTATIC PRESSURE: 2155.00

Raid  
8-27-92

**PRESSURE TRANSIENT REPORT**

**GENERAL INFORMATION**

DATE : 5/21/92	TICKET : 18156
CUSTOMER : GRAVES DRILLING CO., INC.	LEASE : YATES
WELL : 3                      TEST: 1	GEOLOGIST: DEAN PATTISSON
ELEVATION: 1613 KB	FORMATION: MISSISSIPPI
SECTION : 18	TOWNSHIP : 31S
RANGE : 8W                      COUNTY: HARPER	STATE : KS
GAUGE SN#: 10270              RANGE : 4150	CLOCK : 12

**INITIAL FLOW**

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	79.00	79.00
5.00	79.00	0.00
10.00	79.00	0.00
15.00	79.00	0.00
20.00	79.00	0.00
25.00	81.00	2.00
30.00	83.00	2.00

**INITIAL SHUT IN**

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	292.00	292.00	0.00
6.00	544.00	252.00	0.00
9.00	674.00	130.00	0.00
12.00	748.00	74.00	0.00
15.00	801.00	53.00	0.00
18.00	833.00	32.00	0.00
21.00	862.00	29.00	0.00
24.00	880.00	18.00	0.00
27.00	899.00	19.00	0.00
30.00	908.00	9.00	0.00
33.00	919.00	11.00	0.00
36.00	926.00	7.00	0.00
39.00	934.00	8.00	0.00
42.00	939.00	5.00	0.00
45.00	942.00	3.00	0.00
48.00	946.00	4.00	0.00
51.00	949.00	3.00	0.00
54.00	954.00	5.00	0.00
57.00	959.00	5.00	0.00

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8-27-92

CONSERVATION DIVISION  
WICHITA, KS

PRESSURE TRANSIENT REPORT (CONTINUED)

INITIAL SHUT IN (CONTINUED)

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
60.00	964.00	5.00	0.00

FINAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	102.00	102.00
5.00	102.00	0.00
10.00	103.00	1.00
15.00	106.00	3.00
20.00	108.00	2.00
25.00	112.00	4.00
30.00	115.00	3.00
35.00	119.00	4.00
40.00	123.00	4.00
45.00	127.00	4.00
50.00	131.00	4.00
55.00	135.00	4.00
60.00	139.00	4.00

FINAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	506.00	506.00	0.00
6.00	638.00	132.00	0.00
9.00	711.00	73.00	0.00
12.00	765.00	54.00	0.00
15.00	798.00	33.00	0.00
18.00	821.00	23.00	0.00
21.00	842.00	21.00	0.00
24.00	859.00	17.00	0.00
27.00	870.00	11.00	0.00
30.00	881.00	11.00	0.00
33.00	893.00	12.00	0.00
36.00	899.00	6.00	0.00
39.00	907.00	8.00	0.00
42.00	913.00	6.00	0.00
45.00	917.00	4.00	0.00
48.00	922.00	5.00	0.00

Revid  
8-27-92



PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL SHUT IN (CONTINUED)

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
51.00	926.00	4.00	0.00
54.00	931.00	5.00	0.00
57.00	934.00	3.00	0.00
60.00	936.00	2.00	0.00
63.00	939.00	3.00	0.00
66.00	942.00	3.00	0.00
69.00	945.00	3.00	0.00
72.00	948.00	3.00	0.00
75.00	950.00	2.00	0.00
78.00	952.00	2.00	0.00
81.00	954.00	2.00	0.00
84.00	956.00	2.00	0.00
87.00	957.00	1.00	0.00
90.00	958.00	1.00	0.00

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AUG 27 1992  
8-27-92  
CONSERVATION DIVISION  
WICHITA, KS

GAS FLOW REPORT

GENERAL INFORMATION

DATE : 5/21/92	TICKET : 18156
CUSTOMER : GRAVES DRILLING CO., INC.	LEASE : YATES
WELL : 3 TEST: 1	GEOLOGIST: DEAN PATTISSON
ELEVATION: 1613 KB	FORMATION: MISSISSIPPI
SECTION : 18	TOWNSHIP : 31S
RANGE : 8W COUNTY: HARPER	STATE : KS
GAUGE SN#: 10270 RANGE : 4150	CLOCK : 12

PRE FLOW

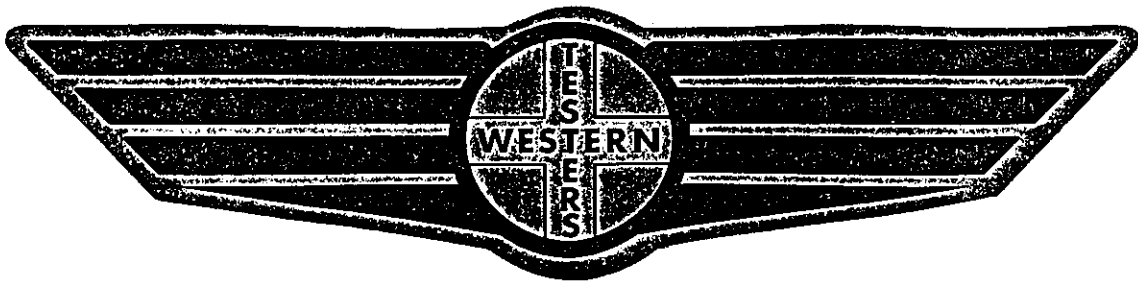
Time Guage (min)	Tester Type	Orifice Size	Pressure	Flow Desc.
12 MIN.	MERLA	0.500		GAS TO SURFACE
15 MIN.	MERLA	0.500	16"WTR	25100 SCF/D
20 MIN.	MERLA	0.500	26"WTR	31900 SCF/D
25 MIN.	MERLA	0.750	11"WTR	47200 SCF/D
30 MIN.	MERLA	0.750	9"WTR	42500 SCF/D

SECOND FLOW

Time Guage (min)	Tester Type	Orifice Size	Pressure	Flow Desc.
10 MIN.	MERLA	0.750	17"WTR	58500 SCF/D
20 MIN.	MERLA	0.750	14"WTR	53300 SCF/D
30 MIN.	MERLA	0.750	10"WTR	44800 SCF/D
40 MIN.	MERLA	0.750	10"WTR	44800 SCF/D
50 MIN.	MERLA	0.750	10"WTR	44800 SCF/D
60 MIN.	MERLA	0.750	10"WTR	44800 SCF/D

*Rec'd*  
8-27-92

# FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1 - 800-688-7021

*Rec'd  
8-27-92*

DST REPORT

GENERAL INFORMATION

DATE : 5/22/92  
CUSTOMER : GRAVES DRILLING CO. INC.  
WELL : 3 TEST: 2  
ELEVATION: 1613 KB  
SECTION : 18  
RANGE : 8W COUNTY: HARPER  
GAUGE SN#: 10270 RANGE : 4150  
TICKET : 18157  
LEASE : YATES  
GEOLOGIST: STUMP  
FORMATION: MISSISSIPPI  
TOWNSHIP : 31S  
STATE : KS  
CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 4385.00 ft TO: 4425.00 ft TVD: 4443.0 ft  
DEPTH OF SELECTIVE ZONE: TEST TYPE: GAS  
DEPTH OF RECORDERS: 4374.0 ft 4388.0 ft  
TEMPERATURE: 123.0

DRILL COLLAR LENGTH:	0.0 ft	I.D.:	0.000 in
WEIGHT PIPE LENGTH :	300.0 ft	I.D.:	2.700 in
DRILL PIPE LENGTH :	4055.0 ft	I.D.:	3.800 in
TEST TOOL LENGTH :	30.0 ft	TOOL SIZE :	5.500 in
ANCHOR LENGTH :	40.0 ft	ANCHOR SIZE:	5.500 in
SURFACE CHOKE SIZE :	0.750 in	BOTTOM CHOKE SIZE:	0.750 in
MAIN HOLE SIZE :	7.875 in	TOOL JOINT SIZE :	4.5XH
PACKER DEPTH:	4380.0 ft	SIZE:	6.630 in
PACKER DEPTH:	4385.0 ft	SIZE:	6.630 in
PACKER DEPTH:	4425.0 ft	SIZE:	6.630 in
PACKER DEPTH:	0.0 ft	SIZE:	0.000 in

MUD INFORMATION

DRILLING CON. : DUKE DRILLING RIG 2  
MUD TYPE : CHEMICAL  
WEIGHT : 9.200 ppg  
CHLORIDES : 10000 ppm  
JARS-MAKE :  
DID WELL FLOW?: YES  
VISCOSITY : 51.00 cp  
WATER LOSS: 12.000 cc  
SERIAL NUMBER:  
REVERSED OUT?: NO

COMMENTS

Comment

INITIAL FLOW PERIOD STRONG BLOW, GAS TO SURFACE IN  
17 MINUTES.  
FINAL FLOW PERIOD GAS TO SURFACE. SEE FLOW CHART.

Rec'd  
8-27-92

**DST REPORT (CONTINUED)**

**COMMENTS (CONTINUED)**

Comment

**GEOLOGIST HAS OUTSIDE CHART.**

**FLUID RECOVERY**

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
90.0	17.0	12.0	43.0	28.0	HVY OIL & GAS CUT MDY WTR
180.0	30.0	30.0	32.0	8.0	HVY OIL & GAS CUT MDY WTR
90.0	32.0	38.0	27.0	3.0	HVY OIL & GAS CUT MDY WTR
60.0	11.0	30.0	54.0	5.0	OIL & GAS CUT MUDDY WATER
330.0	0.0	0.0	100.0	0.0	WATER
0.0	0.0	0.0	0.0	0.0	CHLORIDES 98000 P.P.M.

**RATE INFORMATION**

OIL VOLUME:	1.4686 STB	TOTAL FLOW TIME:	90.0000 min.
GAS VOLUME:	9.2147 SCF	AVERAGE OIL RATE:	27.1056 STB/D
MUD VOLUME:	0.6354 STB	AVERAGE WATER RATE:	81.6164 STB/D
WATER VOLUME:	4.6912 STB		
TOTAL FLUID :	6.7951 STB		

**FIELD TIME & PRESSURE INFORMATION**

INITIAL HYDROSTATIC PRESSURE: 2139.00

Description	Duration	pl	p End
INITIAL FLOW	30.00	114.00	135.00
INITIAL SHUT-IN	60.00		925.00
FINAL FLOW	60.00	187.00	260.00
FINAL SHUT-IN	60.00		904.00

FINAL HYDROSTATIC PRESSURE: 2129.00

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WICHITA, KS

DST REPORT (CONTINUED)

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2243.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	139.00	153.00
INITIAL SHUT-IN	60.00		956.00
FINAL FLOW	60.00	200.00	292.00
FINAL SHUT-IN	60.00		927.00

FINAL HYDROSTATIC PRESSURE: 2166.00

Rec'd  
8-27-92

ORIGINAL

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 5/22/92  
 CUSTOMER : GRAVES DRILLING CO. INC.  
 WELL : 3 TEST: 2  
 ELEVATION: 1613 KB  
 SECTION : 18  
 RANGE : 8W COUNTY: HARPER  
 GAUGE SN#: 10270 RANGE : 4150

TICKET : 18157  
 LEASE : YATES  
 GEOLOGIST: STUMP  
 FORMATION: MISSISSIPPI  
 TOWNSHIP : 31S  
 STATE : KS  
 CLOCK : 12

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	139.00	139.00
5.00	140.00	1.00
10.00	141.00	1.00
15.00	142.00	1.00
20.00	145.00	3.00
25.00	149.00	4.00
30.00	153.00	4.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	514.00	514.00	0.00
6.00	666.00	152.00	0.00
9.00	746.00	80.00	0.00
12.00	790.00	44.00	0.00
15.00	825.00	35.00	0.00
18.00	850.00	25.00	0.00
21.00	868.00	18.00	0.00
24.00	886.00	18.00	0.00
27.00	898.00	12.00	0.00
30.00	905.00	7.00	0.00
33.00	915.00	10.00	0.00
36.00	923.00	8.00	0.00
39.00	931.00	8.00	0.00
42.00	933.00	2.00	0.00
45.00	941.00	8.00	0.00
48.00	944.00	3.00	0.00
51.00	948.00	4.00	0.00
54.00	952.00	4.00	0.00
57.00	954.00	2.00	0.00

RECEIVED

KANSAS CORPORATION COMMISSION

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8-27-92

CONSERVATION DIVISION  
WICHITA, KS

PRESSURE TRANSIENT REPORT (CONTINUED)

INITIAL SHUT IN (CONTINUED)

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
60.00	956.00	2.00	0.00

FINAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	200.00	200.00
5.00	200.00	0.00
10.00	200.00	0.00
15.00	212.00	12.00
20.00	222.00	10.00
25.00	234.00	12.00
30.00	244.00	10.00
35.00	254.00	10.00
40.00	263.00	9.00
45.00	270.00	7.00
50.00	278.00	8.00
55.00	287.00	9.00
60.00	292.00	5.00

FINAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	546.00	546.00	0.00
6.00	684.00	138.00	0.00
9.00	745.00	61.00	0.00
12.00	778.00	33.00	0.00
15.00	804.00	26.00	0.00
18.00	823.00	19.00	0.00
21.00	837.00	14.00	0.00
24.00	852.00	15.00	0.00
27.00	863.00	11.00	0.00
30.00	872.00	9.00	0.00
33.00	880.00	8.00	0.00
36.00	886.00	6.00	0.00
39.00	892.00	6.00	0.00
42.00	900.00	8.00	0.00
45.00	907.00	7.00	0.00
48.00	911.00	4.00	0.00

Rec'd  
8-27-92



PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL SHUT IN (CONTINUED)

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
51.00	915.00	4.00	0.00
54.00	919.00	4.00	0.00
57.00	924.00	5.00	0.00
60.00	927.00	3.00	0.00

RECEIVED  
KANSAS CORPORATION COMMISSION

AUG 27 1992  
8-27-92  
CONSERVATION DIVISION  
WICHITA KS

GAS FLOW REPORT

GENERAL INFORMATION

DATE : 5/22/92	TICKET : 18157
CUSTOMER : GRAVES DRILLING CO. INC.	LEASE : YATES
WELL : 3                      TEST: 2	GEOLOGIST: STUMP
ELEVATION: 1613 KB	FORMATION: MISSISSIPPI
SECTION : 18	TOWNSHIP : 31S
RANGE : 8W                      COUNTY: HARPER	STATE : KS
GAUGE SN#: 10270                      RANGE : 4150	CLOCK : 12

PRE FLOW

Time Guage (min)	Tester Type	Orifice Size	Pressure	Flow Desc.
17 MIN.	MERLA	0.500		
20 MIN.	MERLA	0.500	14"WTR	GAS TO SURFACE 23700 SCF/D

SECOND FLOW

Time Guage (min)	Tester Type	Orifice Size	Pressure	Flow Desc.
10 MIN.	MERLA	0.500	20"WTR	28000 SCF/D
20 MIN.	MERLA	0.500	13"WTR	22800 SCF/D
30 MIN.	MERLA	0.500	15"WTR	24500 SCF/D
40 MIN.	MERLA	0.500	15"WTR	24500 SCF/D
50 MIN.	MERLA	0.500	15"WTR	24500 SCF/D
60 MIN.	MERLA	0.500	15"WTR	24500 SCF/D

*Rec'd  
8-27-92*



CUSTOMER

INVOICE DATE

05/15/92

DIRECT BILLING INQUIRIES TO: 713-895-5821	TERMS: NET AMOUNT DUE 30 DAYS FROM DATE OF INVOICE	REMIT TO: R.J. SERVICES P.O. BOX 297476 HOUSTON, TX 77297
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PAGE 1	INVOICE NO. 071717
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AUTHORIZED BY 071717
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PURCH. ORDER REF. NO.
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GRAVES DRILLING CO INC

BOX 8250  
WICHITA KS 67208

WELL NUMBER : 3

CUSTOMER NUMBER :

5360 - G

LEASE NAME AND NUMBER YATES	STATE 14	COUNTY/PARISH 1407	CITY	DISTRICT NAME Medicine Lodge	DISTR. NO. 586
JOB LOCATION/FIELD SPIVEY - GRASS		MTA DISTRICT	DATE OF JOB 05/15/92	TYPE OF SERVICE LAND-CONDUCTOR/SURFACE	

PRODUCT NUMBER	QUANTITY	DESCRIPTION	UNIT PRICE	U/M	EXTENDED PRICE
10100302	1.00	CEMENT CASING 0 TO 300 FEET	463.00		463.00
10109005	27.00	MILEAGE CHRG. FROM NEAREST BASE OF	2.47		66.69
10410564	120.00	CLASS "A" CEMENT	5.79	CF	694.80
10415018	80.00	FLY ASH	3.06	CFI	244.80
10415049	516.00	A-7 P CALCIUM CHLORIDE PELLETS	0.48	LB	247.68
10420145	344.00	RJ GEL, BENTONITE, PER POUND	0.15	LB	51.60
10430537	1.00	8 5/8" TOP HOLE (SURFACE) PLUG	17.00	EA	17.00
10880001	214.00	MIXING SEVICE CHRG DRY MATERIALS.	1.16		248.24
10940101	243.00	DRAYAGE, PER TON MILE			191.97
					2,225.78
					400.62

RECEIVED  
KANSAS CORPORATION COMMISSION

AUG 27 1992  
8-27-92  
CONSERVATION DIVISION  
WICHITA, KS  
DISCOUNT

ACCOUNT	1.0000% BARBER	1,029.83	10.30
	4.2500% KS-NON WELL	1,029.83	43.76
			1,879.22

RECEIVED  
JUN 1 1992  
6-1-92

TAX EXEMPTION STATUS:

PAY THIS AMOUNT

5304

112036



CUSTOMER

INVOICE

05/23/92

DIRECT BILLING INQUIRIES TO: 713-695-5821	TERMS: NET AMOUNT DUE 30 DAYS FROM DATE OF INVOICE	REMIT TO: BJ SERVICES CO. US P.O. BOX 297478 HOUSTON, TX 77297
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PAGE 1	INVOICE NO. 671722
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AUTHORIZED BY  671722
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PURCH. ORDER REF. NO.  
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GRAVES DRILLING CO INC

BOX 8250  
WICHITA KS 67208

WELL NUMBER : 3

CUSTOMER NUMBER : 5360 - 0

LEASE NAME AND NUMBER YATES	STATE 14	COUNTY/PARISH 1407	CITY	DISTRICT NAME Medicine Lodge	DISTR. NO. 584
JOB LOCATION/FIELD SPIVEY- GRAES	MTA DISTRICT	DATE OF JOB 05/23/92	TYPE OF SERVICE LAND-LONG STRING/PRODUCT		

PRODUCT NUMBER	QUANTITY	DESCRIPTION	UNIT PRICE	U/M	EXTENDED PRICE
10100324	1.00	CEMENT CASING 4.001 TO 4.500 FEET	1223.00		1,223.00
10109005	27.00	MILEAGE CHRG. FROM NEAREST BASE OF	2.47		66.69
10409600	1.00	5 1/2" GUIDE SHOE	124.00	GAL	124.00
10409600	1.00	5 1/2" AFU INSERT	180.00	GAL	180.00
10409600	4.00	5 1/2" CENTRALIZERS	46.75	GAL	187.00
10410504	73.00	CLASS "A" CEMENT	5.79	CF	422.67
10415010	72.00	FLY ASH	3.06	CF	220.32
10415030	725.00	A 5 SALT	0.12	LB	87.00
10415092	1450.00	XOL SEAL	0.35	LB	507.50
10420145	243.00	BJ GEL, BENTONITE, PER POUND	0.15	LB	36.45
10422520	61.00	FL-28	8.00	LB	488.00
10425010	500.00	MUD-SWEEP, WITH BJ-TITAN PUMPING E	1.75	GAL	875.00

ACCOUNT
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RECEIVED  
KANSAS CORPORATION COMMISSION  
AUG 27 1992  
8-27-92  
CONSERVATION DIVISION  
WICHITA, KS

RECEIVED  
JUN 4 1992

TAX EXEMPTION STATUS:



DIRECT BILLING INQUIRIES TO:  713-895-5821	TERMS NET AMOUNT DUE 30 DAYS FROM DATE OF INVOICE	REMIT TO: BJ SERVICES CO. USA P.O. BOX 297476 HOUSTON, TX 77297
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PAGE	2
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AUTHORIZED BY	011722
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PURCH. ORDER REF. NO.	
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GRAVES DRILLING CO INC

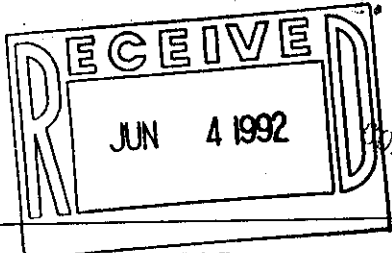
BOX 8250  
WICHITA KS 67208

WELL NUMBER : 3      CUSTOMER NUMBER : 5360

LEASE NAME AND NUMBER	STATE	COUNTY/PARISH	CITY	DISTRICT NAME	DISTR. NO.
RATES	14	1407		Medicine Lodge	584
JOB LOCATION/FIELD	MTA DISTRICT		DATE OF JOB	TYPE OF SERVICE	
SPIVEY- GRAPS			05/23/92	LOAD LONG STRING/PRODUCT	

PRODUCT NUMBER	QUANTITY	DESCRIPTION	UNIT PRICE	U/M	EXTENDED PRICE
10430020	1.00	5 1/2" TOP PLUG RESIN/PLASTIC LUG	23.20		23.20
10430091	138.00	MIXING SERVICE CHRG DRY MATERIALS.	1.50		207.00
10440101	197.10	DRAYAGE, PER TON MILE	0.77		151.77
SUBTOTAL					4,892.67
DISCOUNT					1,321.93

ACCOUNT	1.0000T BARBER 4.2500T KS NEW WELL	24428 RECEIVED 2.3284S CORPORATION COMMISSION AUG 27 1992 8-27-92 CONSERVATION DIVISION WICHITA, KS	23.20 56.95
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TAX EXEMPTION STATUS:

PAY THIS AMOUNT