

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

ORIGINAL

API NO. 15- 129-21169-0000

County Morton

SE    SE    SW    Sec. 1 Twp. 32S Rge. 42    E  
   W

150  
~~150~~ ~~165~~ Feet from (S)N (circle one) Line of Section

2600 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 Russell Well # 4-1

Field Name Richfield West

Producing Formation Morrow

Elevation: Ground 3459' KB 3471'

Total Depth 5200' PBDT 5143'

Amount of Surface Pipe Set and Cemented at 1464' Feet

Multiple Stage Cementing Collar Used? X Yes    No

If yes, show depth set 3484' Feet

If Alternate II completion, cement circulated from   

feet depth    w/    sx cnt.

Drilling Fluid Management Plan 2/2/94 CB cut  
(Data must be collected from the Reserve Pit)

Chloride content 5900 ppm Fluid volume 300 bbls

Dewatering method used evaporation

Location of fluid disposal if hauled offsite:   

Operator Name   

Lease Name    License No.   

   Quarter Sec.    Twp.    S Rng.    E/W

County    Docket No.   

Operator: License # 30915

Name: Richfield Gas Storage System

Address 4200 E. Skelly Dr.

Suite 1000

City/State/Zip Tulsa, OK 74135

Purchaser: (918) 498-9100 Rick Estes

Operator Contact Person: Robert L. Hull

Phone (918) 747-7000

Contractor: Name: Zenith Drlg. Co.

License: Unknown

Wellsite Geologist: Harold Frauli

Designate Type of Completion

XXX    Now Well    Re-Entry    Workover

   Oil    SWD    S10W    Temp. Abd.

   Gas    ENHR    SIGW

   Dry XX Other (Core, MSW, Expl., Cathodic, etc)

Gas Storage

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    PBDT

   Commingled    Docket No.   

   Dual Completion    Docket No.   

   Other (SWD or Inj?)    Docket No.   

4/2/93 4/10/93 7/11/93

Spud Date    Date Reached TD    Completion Date   

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 Robert L. Hull

Title Vice President, Operations Date 8/12/93

Subscribed and sworn to before me this 13<sup>th</sup> day of August, 19 93.

Notary Public 9-11-96

Date Commission Expires Kim M Miller

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 type="checkbox"/>	Geologist Report Received	
AUG 16 1993			
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)			

PI

Operator Name Richfield Gas Storage Lease Name Russell Well # 4-1  
 East County Morton  
 Sec. 1 Twp. 32S Rge. 42  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
Morrow Shale	4550'	-1079'
Morrow G-1 Sand	4874'	-1403'
Morrow G-2 Sand	4922'	-1451'
Morrow Keyes Sand	4998'	-1527'
Miss. Chester Ls.	5152'	-1681'

List All E.Logs Run:

CEMENT 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	9 5/8"	36	1464	Lite + "C"	360+150	2% CaCl2
Production	8 3/4	7"	23	5184	Thixset+"C"	130+75	2% CaCl2

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
8	Morrow G-2, 4930'-49'	2000 gal 15% FE acid	
8	Morrow Keyes, 4998'-5024'	2000 gal 15% FE acid	

TUBING RECORD Size 3 1/2" Set At 5024' Packer At 5024' Liner Run  Yes  No

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

Estimated Production Per 24 Hours Inj. Oil Bbls. Gas Mcf 4200 Water Bbls. Gas-Oil Ratio Gravity

Disposition of Gas:  Vented  Sold  Used on Lease (If vented, submit ACO-18.) METHOD OF COMPLETION  Open Hole  Perf.  Dually Comp.  Commingled  Other (Specify) \_\_\_\_\_ Production Interval 4930'-49'  
4998'-5024'

ORIGINAL



ORIGINAL

REMIT TO: P.O. BOX 951046 DALLAS, TX 75395-1046

HALLIBURTON SERVICES

INVOICE

A Halliburton Company

INVOICE NO:	DATE
345228	04/03/1993

WELL LEASE NO./PLANT NAME	WELL/PLANT LOCATION	STATE	WELL/PLANT OWNER
RUSSELL 4-1	MORTON	KS	RICHFIELD GAS
SERVICE LOCATION	CONTRACTOR	JOB PURPOSE	TICKET DATE
LIBERAL	ZENITH DRILLING	CEMENT SURFACE CASING	04/03/1993
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER
64356	GREG SCOTT		
		SHIPPED VIA	FILE NO.
		COMPANY TRUCK	49044

PANADA EXPLORATION, INC.  
 4200 E. SKELLY DRIVE  
 SUITE 1000  
 TULSA, OK 74135

RECEIVED  
 PANADA RESOURCES INC.

MAY 05 1993

DIRECT CORRESPONDENCE TO:  
 FIRST OKLAHOMA TOWER  
 210 WEST PARK AVENUE  
 SUITE 2050  
 OKLAHOMA CITY, OK 73102-5601

PRICE REF. NO.	DESCRIPTION	QUANTITY	U/M	UNIT PRICE	AMOUNT
000-117	RICING AREA - EASTERN AREA1 MILEAGE	15	MI	2.75	41.25
		1	UNT		
001-016	CEMENTING CASING	1480	FT	945.00	945.00
		1	UNT		
030-018	CEMENTING PLUG SW, PLASTIC TOP	9	5/8 IN	140.00	140.00
		1	EA		
16A	CASING SHOE - 9 5/8" 8RD THD.	1	EA	245.00	245.00
830.2211					
24A	INSERT FLOAT VALVE - 9 5/8" 8RD	1	EA	205.00	205.00
815.19551					
27	FILL-UP UNIT 9 5/8"-13 3/8"	1	EA	60.00	60.00
815.19615					
40	CENTRALIZER 9-5/8" X 12.25"	3	EA	64.00	192.00
807.93065					
66	FASGRIP LIMIT CLAMP 9 5/8"	1	EA	14.30	14.30
807.64061					
320	CEMENT BASKET 9 5/8"	1	EA	135.00	135.00
800.8889					
350	HALLIBURTON WELD-A	1	LB	14.50	14.50
890.10802					
504-050	CEMENT - PREMIUM PLUS	150	SK	8.95	1,342.50
504-120	CEMENT - HALL. LIGHT PREM PLUS	360	SK	8.05	2,898.00
507-210	FLOCELE	90	LB	1.40	126.00
509-406	ANHYDROUS CALCIUM CHLORIDE	9	SK	28.25	254.25
500-207	BULK SERVICE CHARGE	525	DFT	1.25	656.25
500-306	MILEAGE CMTG MAT DEL OR RETURN	360.870	TMI	.85	306.74
	INVOICE SUBTOTAL				7,575.79
	DISCOUNT-(BID)				2,651.48-
	INVOICE BID AMOUNT				4,924.31

RECEIVED  
 STATE CORPORATION COMMISSION  
 SEP 16 1993  
 CONSERVATION DIVISION  
 Wichita, Kansas

\*\*\*\*\* CONTINUED ON NEXT PAGE \*\*\*\*\*

TERMS INVOICES 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 AN ATTORNEY TO ENFORCE COLLECTION OF SAID ACCOUNT, CUSTOMER AGREES TO PAY ALL COLLECTION COSTS AND

ORIGINAL



ORIGINAL

HALLIBURTON SERVICES

REMIT TO: P.O. BOX 951046 DALLAS, TX 75395-1046

INVOICE

A Halliburton Company

INVOICE NO.	DATE
345328	04/11/1993

WELL/LEASE NO./PLANT NAME	WELL/PLANT LOCATION	STATE	WELL/PLANT OWNER
RUSSELL 4-1	MORTON	KS	SAME
SERVICE LOCATION	CONTRACTOR	JOB PURPOSE	TICKET DATE
TBERAL	ZENITH	CEMENT PRODUCTION CASING	04/11/1993
ACCT NO.	CUSTOMER/AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER
564356	H. FRAULI		
		SHIPPED VIA	FILE NO
		COMPANY TRUCK	4914

RECEIVED PANDA RESOURCES INC.

MAY 05 1993

PANADA EXPLORATION, INC. 4200 E. SKELLY DRIVE SUITE 1000 TULSA, OK 74135

DIRECT CORRESPONDENCE TO: FIRST OKLAHOMA TOWER 210 WEST PARK AVENUE SUITE 2050 OKLAHOMA CITY, OK 73102-5601

PRICE REF NO.	DESCRIPTION	QUANTITY	U/M	UNIT PRICE	AMOUNT
000-117	MILEAGE	15	MI	2.75	41.25
001-016	CEMENTING CASING	5180	FT	1,565.00	1,565.00
030-017	CEMENTING PLUG 5W, ALUM BOTTOM	7	IN	145.00	145.00
030-016	CEMENTING PLUG 5W ALUM TOP	7	IN	90.00	90.00
4A	COLLAR-FLOAT-SUPER SEAL II- 7	1	EA	315.00	315.00
836.14100					
5A	SHOE-FLOAT-SSII 7IN. 8RD	1	EA	261.00	261.00
837.14100					
40	CENTRALIZER 7" X 8.5-8.75"	10	EA	57.00	570.00
807.93043					
66	FASGRIP LIMIT CLAMP 7"	1	EA	12.70	12.70
807.64046					
73	F.O. MULT STAGE CMTR 7" 8RD	1	EA	4,250.00	4,250.00
813.0161					
320	CEMENT BASKET 7"	2	EA	120.00	240.00
800.8886					
350	HALLIBURTON WELD-A	1	LB	14.50	14.50
0880319802					
018-316	MUD FLUSH	1000	GAL	.65	650.00
218-738	PVS SPACER	500	GAL	.33	165.00
504-043	CLAYFIX II	15	GAL	21.50	322.50
508-101	CEMENT - PREMIUM	130	SK	8.69	1,129.70
508-103	THIXSET COMPONENT A	122	LB	5.35	652.70
508-002	THIXSET COMPONENT B	31	LB	8.40	260.40
500-207	POTASSIUM CHLORIDE	300	LB	.27	81.00
500-306	BULK SERVICE CHARGE	130	CFT	1.25	162.50
	MILEAGE CMTG MAT DEL OR RETURN	95.0475	TMI	.85	80.79

RECEIVED STATE CORPORATION COMMISSION SEP 16 1993 CONSERVATION DIVISION Wichita Kansas

\*\*\*\*\* CONTINUED ON NEXT PAGE \*\*\*\*\*

TERMS INVOICES 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 AN ATTORNEY TO ENFORCE COLLECTION OF SAID ACCOUNT, CUSTOMER AGREES TO PAY ALL COLLECTION COSTS AND

ORIGINAL

INVOICE

HALLIBURTON SERVICES

A Halliburton Company

REMIT TO: P.O. BOX 951046 BALLAS, TX 75395-1046

INVOICE NO.	DATE
305441	04/17/1993

WELL LEASE NO./PLANT NAME	WELL/PLANT LOCATION	STATE	WELL/PLANT OWNER
USSELL 4-1	MORTON	KS	SAME
SERVICE LOCATION	CONTRACTOR	JOB PURPOSE	TICKET/DATE
LIBERAL	POOL	CEMENT PRODUCTION CASING	04/17/1993
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER
64356	ROGER PEARSON		
		SHIPPED VIA	FILE NO.
		COMPANY TRUCK	49521

PANADA EXPLORATION, INC.  
 4200 E. SKELLY DRIVE  
 SUITE 1000  
 TULSA, OK 74135

DIRECT CORRESPONDENCE TO:  
 FIRST OKLAHOMA TOWER  
 210 WEST PARK AVENUE  
 SUITE 2050  
 OKLAHOMA CITY, OK 73102-5601

PRICE REF. NO.	DESCRIPTION	QUANTITY	U/M	UNIT PRICE	AMOUNT
000-117	TRICING AREA - EASTERN AREA1 MILEAGE	15	MI	2.75	41.25
		1	UNT		
001-016	CEMENTING CASING	3484	FT	1,285.00	1,285.00
		1	EA		
004-050	CEMENT - PREMIUM PLUS	75	SK	8.95	671.25
004-120	CEMENT - HALL. LIGHT PREM PLUS	130	SK	8.05	1,046.50
007-210	FLOCELE	52	LB	1.40	72.80
009-406	ANHYDROUS CALCIUM CHLORIDE	4	SK	28.25	113.00
000-207	BULK SERVICE CHARGE	216	CFT	1.25	270.00
000-306	MILEAGE CMTG MAT DEL OR RETURN	145.388	TMI	.85	123.58

INVOICE SUBTOTAL

3,623.38

DISCOUNT-(BID)  
INVOICE BID AMOUNT

1,268.16-  
2,355.22

\*-KANSAS STATE SALES TAX  
\*-SEWARD COUNTY SALES TAX

RECEIVED 305441 4/17 115.41  
STATE CORPORATION COMMISSION

SEP 16 93 CHECK TOTAL: 2494.17

CONSERVATION DIVISION  
 Wichita, Kansas

PETROLEUM MANAGEMENT COMPANY

DRLG \_\_\_\_\_ COMP. *X*

TANG \_\_\_\_\_ INTANG. \_\_\_\_\_

PROD. OPERATION EXPENSE \_\_\_\_\_

LEASE *Russell 4-1*

USED FOR *cement F.O. 700*

APPROVED BY *[Signature]*

DATE *5/20/93*

RESPECT OR WELL \_\_\_\_\_

ACCOUNT \_\_\_\_\_

MAIN *352.0*

DECK: \_\_\_\_\_

APPROVED *[Signature]*

DATE *5/20/93*

CHECK \_\_\_\_\_

CODING *8 226*

*22587*

*5/13*

*1445*

*2,494.17*

INVOICE TOTAL - PLEASE PAY THIS AMOUNT

TERMS INVOICES 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 AN ATTORNEY TO ENFORCE COLLECTION OF SAID ACCOUNT, CUSTOMER AGREES TO PAY ALL COLLECTION COSTS AND

FOR KCC USE:

EFFECTIVE DATE: 1-13-93

DISTRICT # 1

SGA? Yes  No

State of Kansas

NOTICE OF INTENTION TO DRILL

ORIGINAL

FORM C-1 7/91

FORM MUST BE TYPED

FORM MUST BE SIGNED

ALL BLANKS MUST BE FILLED

Must be approved by the K.C.C. five (5) days prior to commencing well

Expected Spud Date ... February 15, 1993 ... month day year

OPERATOR: License # 30915
Name: Richfield Gas Storage System
Address: 4200 East Skelly Drive, Suite 1000
City/State/Zip: Tulsa, OK 74135
Contact Person: Mark Repasky
Phone: (918) 492-5806

CONTRACTOR: License #:
Name: UNKNOWN

Well Drilled For: Well Class: Type Equipment:
Oil Enh Rec Infield Mud Rotary
Gas Storage Pool Ext Air Rotary
OWHO Disposal Wildcat Cable
Seismic # of Holes Other

If OWHO: old well information as follows:
Operator:
Well Name:
Comp. Date: Old Total Depth

Directional, Deviated or Horizontal wellbore? yes X no
If yes, true vertical depth:
Bottom Hole Location:

Spot East
VSR SE SW Sec 1 Twp 32 S, Rg 42 XX West
150 feet from South North line of Section
2600 feet from East West line of Section
IS SECTION X REGULAR IRREGULAR?
(NOTE: Locate well on the Section Plat on Reverse Side)
County: Morton
Lease Name: Russell Well #: 4-1
Field Name: Richfield West
Is this a Prorated/Spaced Field? yes X no
Target Formation(s): MOLLON
Nearest lease or unit boundary: 150 Feet
Ground Surface Elevation: 3459 feet MSL
Water well within one-quarter mile: yes X no
Public water supply well within one mile: yes X no
Depth to bottom of fresh water: 205 feet 210
Depth to bottom of usable water: 450 feet
Surface Pipe by Alternate: X 1 2
Length of Surface Pipe Planned to be set: 1500
Length of Conductor pipe required: N/A
Projected Total Depth: 5500 feet
Formation at Total Depth: Mississippian
Water Source for Drilling Operations: well X farm pond other
DWR Permit #:
Will Cores Be Taken? yes X no
If yes, proposed zone:

AFFIDAVIT

The undersigned hereby affirms that the drilling, completion and eventual plugging of this well will comply with K.S.A. 55-101, et. seq.
It is agreed that the following minimum requirements will be met:

- 1. Notify the appropriate district office prior to spudding of well;
2. A copy of the approved notice of intent to drill shall be posted on each drilling rig;
3. The minimum amount of surface pipe as specified below shall be set by circulating cement to the top; in all cases surface pipe shall be set through all unconsolidated materials plus a minimum of 20 feet into the underlying formation;
4. If the well is dry hole, an agreement between the operator and the district office on plug length and placement is necessary prior to plugging;
5. The appropriate district office will be notified before well is either plugged or production casing is cemented in;
6. IF AN ALTERNATE II COMPLETION, PRODUCTION PIPE SHALL BE CEMENTED FROM BELOW ANY USABLE WATER TO SURFACE WITHIN 120 DAYS OF SPUD DATE. IN ALL CASES, NOTIFY DISTRICT OFFICE PRIOR TO ANY CEMENTING.

I hereby certify that the statements made herein are true and to the best of my knowledge and belief.
Date: January 5, 1993 Signature of Operator or Agent: Mark Repasky Title: Vice President

FOR KCC USE:
API # 15- 129-21169
Conductor pipe required None feet
Minimum surface pipe required 470 feet per Alt. 1
Approved by: CB 1-8-93
This authorization expires: 7-8-93
(This authorization void if drilling not started within 6 months of effective date.)
Spud date: Agent:

RECEIVED STATE COMMISSION

JAN 8 1993

REMEMBER TO:

- File Drill Pit Application (form CDP-1) with Intent to Drill;
- File Completion Form ACO-1 within 120 days of spud date;
- File acreage attribution plat according to field proration orders;
- Notify appropriate district office 48 hours prior to workover or re-entry;
- Submit plugging report (CP-4) after plugging is completed;
- Obtain written approval before disposing or injecting salt water.

Mail to: Conservation Division, 200 Colorado Derby Building, 202 W. First St., Wichita, Kansas 67202-1286.

Handwritten numbers 1, 32, 42

IN ALL CASES PLOT THE INTENDED WELL ON THE PLAT BELOW

PLAT OF ACREAGE ATTRIBUTABLE TO A WELL IN A PRORATED OR SPACED FIELD

If the intended well is in a prorated or spaced field, please fully complete this side of the form. If the intended well is in a prorated or spaced field complete the plat below showing that the well will be properly located in relationship to other wells producing from the common source of supply. Please show all the wells within 1 mile of the boundaries of the proposed acreage attribution unit for gas wells and within 1/2 mile of the boundaries of the proposed acreage attribution unit for oil wells.

API NO. 15- \_\_\_\_\_  
 OPERATOR Richfield Gas Storage  
 LEASE Russell 4-1  
 WELL NUMBER 4-1  
 FIELD Richfield West

LOCATION OF WELL: COUNTY Morton  
150 feet from south/north line of section  
2600 feet from east/west line of section  
 SECTION 1 TWP 32S RG 42W

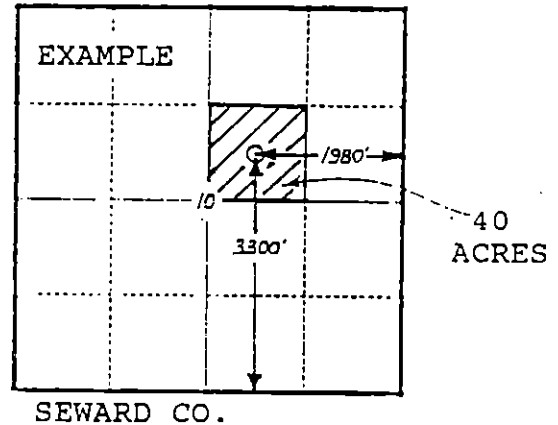
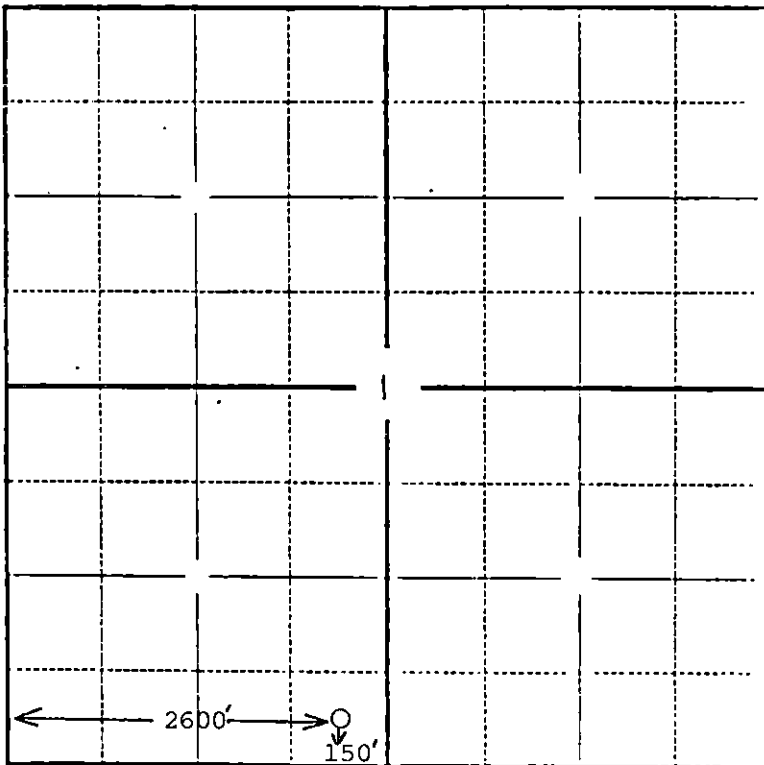
NUMBER OF ACRES ATTRIBUTABLE TO WELL \_\_\_\_\_  
 QTR/QTR/QTR OF ACREAGE \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_

IS SECTION X REGULAR or \_\_\_\_\_ IRREGULAR  
IF SECTION IS IRREGULAR, LOCATE WELL FROM NEAREST CORNER BOUNDARY.

Section corner used: \_\_\_\_\_ NE \_\_\_\_\_ NW \_\_\_\_\_ SE \_\_\_\_\_ SW

PLAT

(Show location of the well and shade attributable acreage for prorated or spaced wells.)  
 (Show footage to the nearest lease or unit boundary line.)



In plotting the proposed location of the well, you must show:

- 1) The manner in which you are using the depicted plat by identifying section lines, i.e. 1 section, 1 section with 8 surrounding sections, 4 sections, etc.;
- 2) the distance of the proposed drilling location from the section's south/north and east/west lines; and
- 3) the distance to the nearest lease or unit boundary line.



INVOICE

**HALLIBURTON SERVICES**

A Halliburton Company

ORIGINAL

INVOICE NO.	DATE
305441	04/17/1999

WELL LEASE NO./PLANT NAME USSELL 4-1		WELL/PLANT LOCATION MORTON		STATE KS	WELL/PLANT OWNER SAME
SERVICE LOCATION LIBERAL		CONTRACTOR POOL	JOB PURPOSE CEMENT PRODUCTION CASING		TICKET DATE 04/17/1999
ACCT. NO. 34356	CUSTOMER AGENT ROGER PEARSON	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA COMPANY TRUCK	FILE NO. 4952

PANADA EXPLORATION, INC.  
4200 E. SKELLY DRIVE  
SUITE 1000  
TULSA, OK 74135

DIRECT CORRESPONDENCE TO:  
FIRST OKLAHOMA TOWER  
210 WEST PARK AVENUE  
SUITE 2050  
OKLAHOMA CITY, OK 73102-5601

PRICE REF. NO.	DESCRIPTION	QUANTITY	U/M	UNIT PRICE	AMOUNT
000-117	TRICING AREA - EASTERN AREA1 MILEAGE	15	MI	2.75	41.25
		1	UNT		
001-016	CEMENTING CASING	3484	FT	1,285.00	1,285.00
		1	EA		
004-050	CEMENT - PREMIUM PLUS	75	SK	8.95	671.25
004-120	CEMENT - HALL. LIGHT PREM PLUS	130	SK	8.03	1,046.50
007-210	FLOCELE	52	LB	1.40	72.80
009-406	ANHYDROUS CALCIUM CHLORIDE	4	SK	28.25	113.00
000-207	BULK SERVICE CHARGE	216	CFT	1.25	270.00
000-306	MILEAGE CMTG MAT DEL OR RETURN	145.388	TMI	.85	123.58
INVOICE SUBTOTAL					3,623.38
DISCOUNT-(BID)					1,268.16-
INVOICE BID AMOUNT					2,355.22
*-KANSAS STATE SALES TAX					115.41
*-SEWARD COUNTY SALES TAX					23.54
INVOICE TOTAL - PLEASE PAY THIS AMOUNT					\$2,494.17

**RECEIVED**  
KANSAS CORPORATION COMMISSION  
FEB 2 1994  
CONSERVATION DIVISION  
WICHITA, KS

TERMS INVOICES 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 AN ATTORNEY TO



HALLIBURTON SERVICES

# JOB SUMMARY

HALLIBURTON LOCATION

Liberal, KS, ORIGINAL

BILLED ON TICKET NO. 305325

Well Gas Storage

Russell

## WELL DATA

SEC 1 TWP 32 RNG 42 COUNTY MONTGOMERY STATE KS

FORMATION NAME	TYPE	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING		4	23	7	K3 (12)	5143	1500
LINEAR							
TUBING		N	9.3	3 1/2	K8 (12)	3484	1500
OPEN HOLE							SHOTS/FT.
PERFORATIONS							
PERFORATIONS							
PERFORATIONS							

PACKER TYPE: FO Cement  
 BOTTOM HOLE TEMP.:  
 MISC. DATA: TOTAL DEPTH 5143

## JOB DATA

CALLED OUT DATE	ON LOCATION DATE	JOB STARTED DATE	JOB COMPLETED DATE
4-17-93	4-17-93	4-17-93	4-17-93
TIME 07:30	TIME 10:30	TIME 10:30	TIME 21:00

## TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS		
BOTTOM PLUG		
TOP PLUG		
HEAD		
PACKER		
OTHER		

PERSONNEL AND SERVICE UNITS	NAME	UNIT NO. & TYPE	LOCATION
	LIO Grant	54487	41325 TPO Liberal, KS
	R. Taylor	D4033	" "
	T. Bohannon	87748	75574 CP4 " "
	W. Thurman	50808	72-4 ACM Bulk Hugonville

MATERIALS	DENSITY	LEGAL AMT
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		
PERFFAC BALLS TYPE		
OTHER		

DEPARTMENT: TOOL / Cement  
 DESCRIPTION OF JOB: Run 7" FO, Angles, Cement FO, Cement with listed cuts.  
 JOB DONE THRU: TUBING  CASING  ANNULUS  TBG/ANN.   
 CUSTOMER REPRESENTATIVE: X Roger Pearson  
 HALLIBURTON OPERATOR: [Signature]  
 COPIES REQUESTED:

## CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
L	130	HLC (PS)	B	2% CC, 1/4" H. Floccle	2.1	123
T	75	Premium Plus	B	2% CC, 1/4" H. Floccle	1.32	148

PRESSURES IN PSI	SUMMARY	VOLUMES
CIRCULATING DISPLACEMENT	PRESLUSH: BBL-GAL 1.5	TYPE
BREAKDOWN MAXIMUM	LOAD & BKDN: BBL-GAL 20	PAD: BBL-GAL
AVERAGE FRACTURE GRADIENT	DISPL: BBL-GAL 40	DISPL: GAL 295
SHUT-IN: INSTANT 5-MIN. 15-MIN.	CEMENT COMPRESSIVE STRENGTH: GAL 48.6 / 17.6	TOTAL VOLUME: BBL-GAL
ORDERED AVAILABLE USED	FEB 1994	REMARKS
AVERAGE RATES IN BPM		
TREATING DISPL. OVERAGE		
CEMENT LEFT IN PIPE		
FEET REASON		

RECEIVED  
 KANSAS CORPORATION

CUSTOMER: Russell Gas Storage Liberal, KS

LOG

WELL NO. 4-1 LEASE Russell TICKET NO. \_\_\_\_\_  
 CUSTOMER Richfield Gas Storage PAGE NO. 1  
 JOB TYPE 7" FO, Fringers / Cement DATE 4-17-93

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	07:30							Called out Ready at 10:30
	10:30							at location; Rig setting, Rig up, Rig
	11:50							Rig on ROP, Subroad test with pipe beams
	14:00							ORIGINAL unload T&G make up 3 1/2" EUE 8' x 2 7/8" x 1000', 4' 2 7/8" sub
	14:25							to open fringers, 6' 2 7/8" sub, FO close (300' approx)
	18:15							start tapping, make hole (7' 50' to 1 1/2" in other)
	18:22		1 1/2			500	500	Tag Tool, Hook up Load Hole pit
1	18:23					↓	↓	open tool, weight 37,000 - 54,000 lbs
	18:35							Close tool 36,000 (8,000 lb) Reopen tool
3	18:39	4				150	150	Pump water to ESTE, circulation
4	18:44	2	18			200	200	circulate up surface, mix 130% HCC (10) 20% K4Fh
5	18:45	2-4	2			500	500	Pump cement in casing
6	18:57	4	48					stop pump 75% pressure in 2' 7/8" 1 1/2" hole
7	19:01	4	17					Final count start displacement water
8	19:08	2	29.5			200	200	Final Displacement, close tool
9	19:09					1000	1000	RESET + CSE
10	19:11	5				400	400	Reverse out
11	19:19		40					Final Reverse out 5h down knee close
	19:25							Tag out of hole with tool
	20:30							out of hole, set out + load out tool
	21:00							Released 5h completed

RECEIVED  
 KANSAS CORPORATION COMMISSION  
 FEB 2 1994  
 CONSERVATION DIVISION  
 WICHITA, KS



INVOICE

HALLIBURTON SERVICES

A Halliburton Company

INVOICE NO.	DATE
345328	04/11/19

WELL LEASE NO./PLANT NAME		WELL/PLANT LOCATION		STATE	WELL/PLANT OWNER
RUSSELL 4-1		MORTON		KS	SAME
SERVICE LOCATION		CONTRACTOR	JOB PURPOSE		TICKET DATE
LIBERAL		ZENITH	CEMENT PRODUCTION CASING		04/11/19
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE
664356	H. FRAULI			COMPANY TRUCK	491

ORIGINAL

PANADA EXPLORATION, INC.  
4200 E. SKELLY DRIVE  
SUITE 1000  
TULSA, OK 74135

DIRECT CORRESPONDENCE TO:  
FIRST OKLAHOMA TOWER  
210 WEST PARK AVENUE  
SUITE 2050  
OKLAHOMA CITY, OK 73102-5601

PRICE REF. NO.	DESCRIPTION	QUANTITY	U/M	UNIT PRICE	AMOUNT
000-117	MILEAGE	15	MI	2.75	41.25
001-016	CEMENTING CASING	5180	FT	1,565.00	1,565.00
020-017	CEMENTING PLUG 5W, ALUM BOTTOM	7	IN	145.00	145.00
030-016	CEMENTING PLUG 5W ALUM TOP	7	IN	90.00	90.00
4A	COLLAR-FLOAT-SUPER SEAL II- 7	1	EA	315.00	315.00
836.14100		1	EA	315.00	315.00
5A	SHOE-FLOAT-SSII 7IN. 8RD	1	EA	261.00	261.00
837.14100		1	EA	261.00	261.00
40	CENTRALIZER 7" X 8.5-8.75"	10	EA	57.00	570.00
807.93043		10	EA	57.00	570.00
66	FASORIP LIMIT CLAMP 7"	1	EA	12.70	12.70
807.64046		1	EA	12.70	12.70
73	F.O. MULT STAGE CNTR 7" 8RD	1	EA	4,250.00	4,250.00
813.0161		1	EA	4,250.00	4,250.00
320	CEMENT BASKET 7"	2	EA	120.00	240.00
800.8886		2	EA	120.00	240.00
350	HALLIBURTON WELD-A-KANSAS CORPORATION COMMISSION	1	LB	14.50	14.50
880319802		1	LB	14.50	14.50
018-316	MUD FLUSH	1000	GAL	.65	650.00
218-733	FVS SPACER	500	GAL	.33	165.00
504-043	CLAYFIX II	15	GAL	21.50	322.50
508-101	CEMENT - PREMIUM	130	SK	8.69	1,129.70
508-103	THIXSET COMPONENT A	123	LB	5.35	652.70
508-002	THIXSET COMPONENT B	31	LB	8.40	260.40
500-207	POTASSIUM CHLORIDE	300	LB	.27	81.00
500-306	BULK SERVICE CHARGE	130	CFT	1.25	162.50
	MILEAGE CNTG MAT DEL OR RETURN	95.0475	TMI	.85	80.79

RECEIVED

FEB 2 1994

CONSERVATION DIVISION  
WICHITA, KS

\*\*\*\*\* CONTINUED ON NEXT PAGE \*\*\*\*\*

TERMS INVOICES 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 EXCEEDING AN ANNUAL PERCENTAGE RATE OF 18% PER ANNUM. IF THE EMPLOYER DEEMES IT NECESSARY TO EMPLOY AN ATTORNEY TO ENFORCE THIS AGREEMENT, THE EMPLOYER SHALL BE ENTITLED TO REASONABLE ATTORNEY'S FEES AND COSTS.



WELL NO. 4-1 LEASE RUSSELL TICKET NO. \_\_\_\_\_

CUSTOMER CANADA FLD INC PAGE NO. \_\_\_\_\_

JOB TYPE 7" long string DATE 4-10-93

JR-2

TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
			T	C	TUBING	CASING	
1800							Called - Ready @ 2200
2130							ON location - Rig circulate on bottom
-							LADP
0330							ORIGINAL RUN 7" CASING to 5180'
0650							CASING IN.
0700							Circulate w/ Rig - Hold Safety Meeting
0735							Hook up truck
0740							Drop bottom plug
0746	6	12				250	Pump 500 Gal Mud flush
0748	6	12				200	500 Gal PVS-5
0752	6	12				200	500 Gal Mud flush
0752	6	32				150	130 sk THIXSET (5% Kei)
0758							- WASH up - Drop top plug
0802	6					50	Displace
0837		(202)				250/800	Plug down
						0	Float Holding - Job Complete

**RECEIVED**  
KANSAS CORPORATION COMMISSION  
FEB 2 1994  
CONSERVATION DIVISION  
WICHITA, KS

CONSULTANT - H. FRANTI  
Tool Pusher - G. SEATT

RICHFIELD GAS STORAGE SYSTEM

RECEIVED  
KANSAS CORPORATION COMMISSION

FEB 2 1994

February 1, 1994  
CONSERVATION DIVISION  
WICHITA, KS  
ORIGINAL

Mr. Chris Bean  
Conservation Division  
Kansas Corporation Commission  
202 W. First Street  
Wichita, Kansas 67202

Re: Field Cement Tickets

Dear Mr. Bean:

Pursuant to your letter of January 20, 1994 (attached), please find the information you requested relative to the Russell 4-1, Johns 3-1 and Jackson 3-11 wells in Morton County, Kansas.

If additional information is needed, please let me know.

Sincerely,



Richard D. Estes  
Manager, Project Development

RDE/gk