



Operator Name: Jones Gas Corporation Lease Name: Sherwin B Well #: 4  
 Sec. 20 Twp. 31 S. R. 15  East  West County: Montgomery

**INSTRUCTIONS:** Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems 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 test, along with final chart(s). Attach extra sheet if more space is needed. Attach copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Submit Copy)</i>  List All E. Logs Run:  Radioactivity Log <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 15%;">Top</th> <th style="width: 15%;">Datum</th> </tr> </thead> <tbody> <tr> <td>Kinderhook Shale</td> <td style="text-align: center;">1624</td> <td style="text-align: center;">-628</td> </tr> <tr> <td>Arbuckle</td> <td style="text-align: center;">1651</td> <td style="text-align: center;">-655</td> </tr> </tbody> </table>	Name	Top	Datum	Kinderhook Shale	1624	-628	Arbuckle	1651	-655
Name	Top	Datum								
Kinderhook Shale	1624	-628								
Arbuckle	1651	-655								

CASING RECORD <input 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	# Sacs Used	Type and Percent Additives
Surface	12 1/4"	8 5/8"	20#	23	Portland	5	
Production	6 3/4"	4 1/2"	10.5#	1663	50/50 Poz	225	5% Salt; 2% Gel 2% floeal

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

<b>TUBING RECORD</b>		Size	Set At	Packer At	Liner Run	<input type="checkbox"/> Yes <input type="checkbox"/> No
		2 3/8"	1626	1626		
Date of First, Resumerd Production, SWD or Enhr. 11/24/03			Producing Method			
			<input type="checkbox"/> Flowing <input 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	

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

API. 15-125-30422-00-00

KANSAS

RECEIVED CORPORATION COMMISSION

KATHLEEN SEBELIUS, GOVERNOR  
BRIAN J. MOLINE, CHAIR  
JOHN WINE, COMMISSIONER  
ROBERT E. KREHBIEL, COMMISSIONER

NOV 25 2003  
KCC WICHITA

TEMPORARY INJECTION AUTHORIZATION

TO: JONES GAS CORPORATION  
P. O. BOX 970  
WICHITA, KS 67201-0970

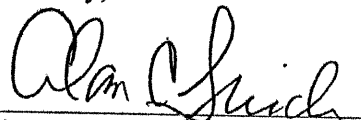
RE: Application for Injection Authority  
Docket no. D-28243  
Sherwin B Lease, well #4  
SE-SE-SE of 20-31-15E  
Montgomery County  
*API. 15-125-30422-00-00*

Dear Sirs:

Staff has completed the initial reviews of the above-referenced injection application. The MIT requirement has been successfully completed. Notice has been examined and found proper, and the fifteen day protest period has elapsed. Based on this information, you are hereby given temporary administrative approval to start injecting fluids into this well. Volumes are not to exceed 5000 barrels per day, nor are pressures to exceed 300 psig. into the Arbuckle formation.

If during subsequent reviews any technical or legal problems arise, you will be expected to immediately cease use of this well if so requested by this office or our district staff. Your official permit authorizing injection will follow upon completion of all necessary processing.

Sincerely,

  
Alan C. Snider, Supervisor

November 19, 2003  
Date of Approval

cc: District Office #3  
UIC File

# ORIGINAL INVOICE

## Well Refined Drilling Company, Inc.

HAVE RIG. WE'LL DIG!

4270 Gray Road  
Thayer, KS 66776  
Phone: 620-763-2619 Fax: 620-763-2065

DATE:  
11/3/2003

INVOICE #  
110303-060

**Bill To:**

c/o George R. Jones  
Jones Gas Corporation  
PO Box 970  
Wichita, KS 67201-0970  
316-262-5503 X 12

**RECEIVED**

**NOV 25 2003**

**KCC WICHITA**

**For:**

Sherwin B # 4  
API # 15-125-30422-0000  
165' from S; 165' from E  
SE,SE,SE of S20, T31S, R15E  
Montgomery County, KS

DESCRIPTION	T	AMOUNT
1664' ft. drilled	\$ 6.50	\$ 10,816.00
5 sacks of Portland cement	\$ 10.00	50.00
10 hrs. rig time (trip in 2 7/8" drill stem / 3 7/8" tricone - deepen to 1682'; watered out; trip out)	\$ 250.00 T	2,500.00
3 7/8" tricone bit	\$ 950.00 T	950.00
<b>SUBTOTAL</b>		<b>\$ 14,316.00</b>
<b>TAX RATE</b>		<b>6.30%</b>
<b>SALES TAX</b>		<b>217.35</b>
<b>OTHER</b>		<b>-</b>
<b>TOTAL</b>		<b>\$ 14,533.35</b>

Make all checks payable to Well Refined Drilling Company, Inc.  
Amounts not paid in full in 30 days are charged 1 1/2% = 18% annual interest  
If you have any questions concerning this invoice, contact Charlotte - 620-763-2619

**Keep Drilling - We're Willing !!**

ORIGINAL

**Well Refined Drilling Company, Inc.**

4270 Gray Road - Thayer, KS 66776

Contractor License # 33072 - FEIN # [REDACTED]

620-763-2619/Home; 620-432-6270/Jeff's Pocket; 620-423-0802/Truck; 620-763-2065/FAX



Rig #:	1
API #:	15-125-30,422-0000
Operator:	Jones Gas Corporation
Address:	PO Box 970
	Wichita, KS 67201-0970

S 20	T 31S	R 15E
Location:	SE,SE,SE	
County:	Montgomery	

Well #:	4	Lease Name:	Sherwin B
Location:	165 ft. from (N / S) Line		
	165 ft. from (E / W) Line		
Spud Date:	10/29/2003		
Date Completed:	11/3/2003	TD:	1682'
Geologist:			
<b>Casing Record</b>	<b>Surface</b>	<b>Production</b>	
Hole Size	12 1/4"	6 3/4"	
Casing Size	8 5/8"		
Weight			
Setting Depth	23		
Cement Type	Portland		
Sacks	5		
Feet of Casing			

Gas Tests			
Depth	Oz.	Orifice	flow - MCF
1002'	2"	3/8"	5.05
1344'	11	1/2"	20.9

Rig Time	Work Performed	Driller:
10 hrs.	Trip in with 2 7/8" drill stem to 1664'	Helper # 1
	Drill to 1682' with 3 7/8" tricone bit	Helper # 2
	Watered out at 1682'	Helper # 3
	Trip out.	Helper # 4

**Well Log**

Top	Bottom	Formation	Top	Bottom	Formation	Top	Bottom	Formation
0	2	Overburden	550	653	shale	981	987	blk shale
2	19	lime	653	718	lime	987	988	coal
19	145	shale	718	738	shale	988	994	lime
145	157	lime	738	739	coal	994	1075	shale
157	300	shale	739	758	shale	1000		added water
300	301	coal	758	798	sand	1075	1076	coal
301	355	shale	798	833	shale	1076	1138	shale
355	387	lime	833	834	coal	1138	1140	coal
387	407	shale	834	839	shale	1140	1179	shale
407	460	lime	839	857	Pink lime	1179	1180	coal
460	467	sand	857	889	shale	1180	1274	shale
467	481	shale	889	909	sand	1274	1298	laminated sand
481	486	lime	909	930	shale	1298	1306	shale
486	490	shale	930	954	Oswego lime	1306	1308	coal
490	491	coal	954	956	shale	1308	1340	shale
491	525	shale	956	962	blk shale	1340	1341	coal
525	550	lime	962	981	lime	1341	1348	shale



ORIGINAL

**DEAN E. SEEBER**

*PETROLEUM GEOLOGIST*

101 South Star

EL DORADO, KANSAS 67042

RECEIVED

NOV 25 2003

KCC WICHITA

November 8, 2003

Jones Gas Corp.  
P. O. Box 970  
Wichita, KS 67201-0970

Re: #4 Sherwin B  
165fS/165fE Sec 20-T31S-R15E  
Montgomery County, KS  
API 15-125-30422 -00-00

Dear Sirs:

The following tops were picked on the above well which had a ground elevation of 996'.

Kinderhook Shale	1624 (-628)
Arbuckle	1651 (-655)
RTD	1664 (-668)

Lithology

<u>Kinderhook</u>	1624 - 1627
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Shale, green, platy	1627 - 1651
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Shale, grey-brown, sour petroleum odor in part

<u>Arbuckle</u>	1651 - 1661
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Limestone, cream-tan, dense to slightly dolomitic - no visible porosity, some chert, grey, grainy

1661 - 1663

Dolomite, tan, fine to medium crystalline, fair intercrystalline porosity, abundant chert, grey with dark brown oolite inclusions

ORIGINAL

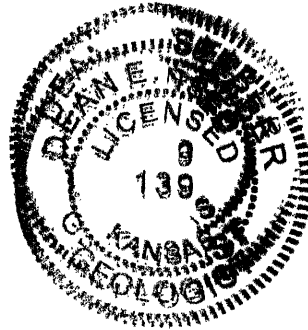
API # 15-125-30422-00-00  
1663 - 1664

Dolomite, brown, medium crystalline, fair intercrystalline porosity, oolitic chert as above

Drilling was halted at this point to run and cement casing. Well is to be drilled deeper in Arbuckle for use as a salt water disposal.

Yours sincerely,

Dean E. Seeber  
Petroleum Geologist







**CONSOLIDATED**  
OIL WELL  
SERVICES  
AN INFINITY COMPANY

211 W. 14TH STREET, CHANUTE, KS 66720  
620-431-9210 OR 800-467-8676

Fax 316-262-1996

RECEIVED

NOV 25 2003

KCC WICHITA

FIELD TICKET

ORIGINAL

TICKET NUMBER 23200

LOCATION Chanute

B-4

APT # 15-125-30422-00-00

DATE 10/31/03	CUSTOMER ACCT # 4004	WELL NAME Sterwin	QTR/OTR SE/SE/SE	SECTION 20	TWP 31S	RGE 15E	COUNTY Mont	FORMATION Arbuckle
CHARGE TO Jones Gas Corp				OWNER				
MAILING ADDRESS PO Box 970				OPERATOR				
CITY & STATE Wichita KS 67201				CONTRACTOR				

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION OF SERVICES OR PRODUCT	UNIT PRICE	TOTAL AMOUNT
5401	1 Well	PUMP CHARGE Cement Pump	525.00	525.00
1111	472 Lbs	Salt	.25	118.00
1110	22.5 SK	Gilsonite	19.40	436.50
1107	2 SK	Cello Flake	37.75	75.50
1118	7 SK	Prem. Gel 5 In. Load	11.80	82.60
		2 SK ahead of Job		
4401	1	4 1/2 Rubber Plug	27.00	27.00
1123	{ 180 Bbls 7560 Gal }	City water	11.25	85.05
		BLENDING & HANDLING		
5407	40 mi	TON-MILES Delivery Min	190.00	190.00
		STAND BY TIME		
		MILEAGE		
5501	3.5 hr	WATER TRANSPORTS	80.00	280.00
5502	2.1r	VACUUM TRUCKS	75.00	150.00
		FRAC SAND		
1124	225 SK	CEMENT 50/50 P02 5# Gilsonite	6.45	1451.25
		5% Salt 4# Flaseal 2% Gel	SALES TAX 5.3%	120.60
		10% Disc		
		Blue Ink		
		11/03/03		
		ESTIMATED TOTAL		3541.52

Ravin 2790

CUSTOMER or AGENTS SIGNATURE \_\_\_\_\_

CIS FOREMAN Dwayne

CUSTOMER or AGENT (PLEASE PRINT) \_\_\_\_\_

DATE \_\_\_\_\_

187406

