

ORIGINAL

SIDE ONE

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

API NO. 15- 145-21,363.0000  
County PAWNEE  
S/2 SE SE Sec. 11 Twp. 20S Rge. 16 X East West

Operator: License # 7383  
Name: GRADY BOLDING CORPORATION  
Address P. O. Box 486

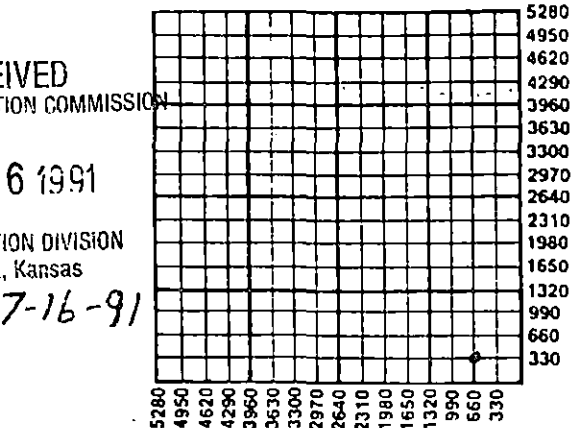
330 Ft. North from Southeast Corner of Section  
660 Ft. West from Southeast Corner of Section  
(NOTE: Locate well in section plat below.)

City/State/Zip ELLINWOOD, KS. 67526  
Purchaser: Koch  
Operator Contact Person: Grady Bolding  
Phone ( 316 ) 793-8628 or 564-2765

Lease Name BLAKE Well # 1  
Field Name Pawnee Rock

Producing Formation Arbuckle  
Elevation: Ground 2046' KB 2051'  
Total Depth 3880' PBDT

Contractor: Name: L. D. DRILLING, INC.  
License: 6039



Amount of Surface Pipe Set and Cemented at 1054' Feet

Wellsite Geologist: James Musgrove

Multiple Stage Cementing Collar Used? X Yes  No

Designate Type of Completion  
 New Well  Re-Entry  Workover  
 Oil  SWD  Temp. Abd.  Wichita, Kansas  
 Gas  Inj  Delayed Comp.  
 Dry  Other (Core, Water Supply, etc.)

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

If ~~CMHO~~: old well info as follows:  
Operator: \_\_\_\_\_

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

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

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

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

Drilling Method:  
 Mud Rotary  Air Rotary  Cable

5-01-91 5-09-91 5/28/91  
Spud Date Date Reached TD Completion Date

**INSTRUCTIONS:** This form shall be completed in triplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date of any well. Rule 82-3-130, 82-3-107 and 82-3-106 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 drillers time log 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. Any recompletion, workover or conversion of a well requires filing of ACO-2 within 120 days from commencement date of such work.

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.

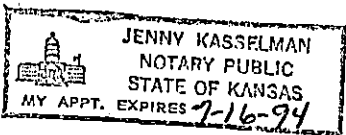
Signature W. Bolding Jr.  
Title President Date 7/15/91

Subscribed and sworn to before me this 15<sup>th</sup> day of July, 19 91.

Notary Public Jenny Kasselmann

Date Commission Expires 7-16-94

**K.C.C. OFFICE USE ONLY**  
F  Letter of Confidentiality Attached  
C  Wireline Log Received  
C  Drillers Timelog Received  
  
Distribution  
 KCC  SWD/Rep  NGPA  
 KGS  Plug  Other  
(Specify)



P1

**SIDE TWO**

Operator Name GRADY BOLDING CORPORATION Lease Name BLAKE Well # 1  
 Sec. 11 Twp. 20S Rge. 16  East County PAWNEE  
 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.)

(See attached for Drill Stem Tests)

**Formation Description**  
 Log  Sample  
 Name Top Bottom  
 (see attached)

**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#	1054'	60/40 Poz.	375	2% Gel, 3% CC
production	7-7/8"	5-1/2"	14#	3879'	60/40 Poz.	125	6% Gel, 3% CC

Shots Per Foot	PERFORATION RECORD Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
2 per foot	3800'-3804'	500 Gals. 1.5% NE	3800-3804'

**TUBING RECORD** Size 2-3/8" Set At 3810' Packer At None Liner Run  Yes  No

Date of First Production 6/1/91 Producing Method  Flowing  Pumping  Gas Lift  Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	40	5,000 cf	20		41°

Disposition of Gas:  Vented  Sold  Used on Lease (If vented, submit ACO-18.)  
 METHOD OF COMPLETION:  Open Hole  Perforation  Dually Completed  Commingled  
 Other (Specify) \_\_\_\_\_  
 Production Interval 3800'-3804'

<u>FORMATION</u>	<u>ELECTRIC LOG DEPTH</u>	<u>SUB-SEA DATUM</u>
Anhydrite	1073	+ 978
Howard	3048	- 997
Topeka	3127	-1076
Heebner	3386	-1335
Toronto	3406	-1355
Douglas	3416	-1365
Brown Lime	3469	-1418
Lansing	3479	-1428
Base Kansas City	3705	-1654
Arbuckle	3748	-1697
Rotary Total Depth	3880	-1829
Log Total Depth	3878	-1827

(All depths corrected to Electric Log Measurements)

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STATE CORPORATION COMMISSION

JUL 16 1991

CONSERVATION DIVISION  
Wichita, Kansas

## Drill Stem Test #1 3758-3775'

ORIGINAL

Open: I.F. 30"  
F.F. 45"

Blow: Strong; gas to surface 5 minutes.

Gas gauged as follows:

1st Open		
5 minutes	357,000	Cubic feet gas per day.
10 minutes	472,000	Cubic feet gas per day.
20 minutes	257,000	Cubic feet gas per day.
30 minutes	344,000	Cubic feet gas per day.

2nd Open		
5 minutes	370,000	Cubic feet gas per day.
10 minutes	370,000	Cubic feet gas per day.
20 minutes	331,000	Cubic feet gas per day.
30 minutes	303,000	Cubic feet gas per day.
45 minutes	303,000	Cubic feet gas per day.

Recovery: 20' Heavy gas cut mud

Pressures: ISIP 908 psi (30")  
FSIP 900 psi (45")  
IFP 133-83 psi  
FFP 75-50 psi  
HSH 1999-1979 psi

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Wichita, Kansas

## Drill Stem Test #2 3775-3788'

Open: I.F. 30"  
F.F. 45"

Blow: Strong; gas to surface 12 minutes

Gas gauged as follows:

1st Open		
12 minutes	19,000	Cubic feet gas per day.
20 minutes	23,000	Cubic feet gas per day.
30 minutes	41,000	Cubic feet gas per day.

2nd Open		
15 minutes	67,000	Cubic feet gas per day.
30 minutes	41,000	Cubic feet gas per day.
45 minutes	27,000	Cubic feet gas per day.

Recovery: 62' Muddy gassy oil

Pressures: ISIP 842 psi (30")  
FSIP 825 psi (45")  
IFP 66-50 psi  
FFP 41-25 psi  
HSH 1982-1971 psi

ORIGINAL

## Drill Stem Test #3 3787-3803'

Open: I.F. 30"  
F.F. 45"

Blow: Strong; gas to surface 5 minutes  
1st Open: Too small to measure.

Recovery: 55' Muddy gassy oil

Pressures: ISIP 342 psi (30")  
FSIP 392 psi (45")  
IFP 58-50 psi  
FFP 50-64 psi  
HSH 1982-1977 psi

## Drill Stem Test #4 3800-3818'

Open: I.F. 30"  
F.F. 45"

Blow: Weak to strong; gas to surface final  
shut in T.S.T.M.

Recovery: 55' Heavy oil and gas cut mud

Pressures: ISIP 418 psi (30")  
FSIP 351 psi (45")  
IFP 50-58 psi  
FFP 58-66 psi  
HSH 1997-1987 psi

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CONSERVATION DIVISION  
Wichita, Kansas

# L. D. DRILLING, INC.

GREAT BEND, KANSAS

15.145.21363-0000  
DAILY DRILLING RECORD

FOR 24 HOURS ENDING AT MIDNIGHT

5-1 1991 RIG NO. 1

WELL OWNER GRADY BOODING CORP.

LEASE BLAKE

WELL NO. 1

SECTION \_\_\_\_\_ TOWNSHIP \_\_\_\_\_ RANGE \_\_\_\_\_ COUNTY \_\_\_\_\_

STATE \_\_\_\_\_

IF INJURED: SIGN AND DESCRIBE INJURY UNDER REMARKS

WE HAVE NOT BEEN INJURED THIS DAY

FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER
				8 MARK A SANDER 25 MILES
				8 KENNETH CRUSE
				8 BILL MCLAREN
				8 CLENTON LUME

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO.	REMARKS: <u>RIG T</u>				
SIZE					
MAKE					
SERIAL NO.					
SERIAL NO.					

FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER
				Greg Davidson
				Jack Millard
				Dennis Brack 35mi
				Layton Clark

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO.	REMARKS:				
SIZE					
MAKE					
SERIAL NO.					
SERIAL NO.					

FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER
250	885		Surface	8 Don Fopp
				8 Duane Fopp 50mi
				8 Richard Wilson
				8 Alton Ohs

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO.	REMARKS: <u>July 12<sup>th</sup> 91</u>				
SIZE					
MAKE					
SERIAL NO.					
SERIAL NO.					

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JUL 16 1991

# L. D. DRILLING, INC.

GREAT BEND, KANSAS

15.145.21363.0000  
DAILY DRILLING RECORD

FOR 24 HOURS ENDING AT MIDNIGHT

5-2 19 91 RIG NO. 1

WELL OWNER GRADY BOLDING CORP. LEASE BLAKE

WELL NO. 1

SECTION 11 TOWNSHIP 20 RANGE 16 COUNTY PAWNEE

STATE KS.

IF INJURED: SIGN AND DESCRIBE INJURY UNDER REMARKS

WE HAVE NOT BEEN INJURED THIS DAY

FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER
885				MARK A SANDER
				DERRICKMAN KENNETH CRUSE
				MOTORMAN MIT-LISTON 25 MILES
				HELPER BILL McLEKEN
				HELPER

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO.	REMARKS: 11:00 TO 2:30 DRLG 12 1/4 2:30 TO 3:30 DUMMY TRIP				
SIZE	3:30 TO 4:00 JET CELLAR + CTCH 4:00 TO 5:00 OUT OF HOLE				
MAKE	5:00 TO 7:00 RUN 8 1/2				
SERIAL NO.					
SERIAL NO.					

FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER
				Greg Davidson
				DERRICKMAN Jack Millard
				MOTORMAN Dennis Brack
				HELPER Layton Clark 35mi
				HELPER

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO.	REMARKS:				
SIZE					
MAKE					
SERIAL NO.					
SERIAL NO.					

FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER
1064	1515			Don Fopp
				DERRICKMAN Duane Fopp
				MOTORMAN Richard Wilson 50mi
				HELPER Alvin Cook
				HELPER

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO.	REMARKS: Drlg				
SIZE					
MAKE					
SERIAL NO.					
SERIAL NO.					

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JUL 16 1991

# L. D. DRILLING, INC.

GREAT BEND, KANSAS

15.145.21363.0000  
DAILY DRILLING RECORD

FOR 24 HOURS ENDING AT MIDNIGHT

5-3 1991 RIG NO. 1

WELL OWNER GRADY BOLDING CORP. LEASE BLAKE WELL NO. 1  
SECTION 11 TOWNSHIP 20 RANGE 16 COUNTY PAWNEE STATE K5  
IF INJURED: SIGN AND DESCRIBE INJURY UNDER REMARKS WE HAVE NOT BEEN INJURED THIS DAY

FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER
1515	1975			8 MARK A. SANDER <sup>25 miles</sup>
				8 KENNETH CRUSE
				8 MATT HISTON
				8 CLENTON DUKE

IRIG 1/4 HR  
JET 1/2 HR  
CONN 1 HR  
DRUGED 6 1/4

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO. SIZE MAKE SERIAL NO. SERIAL NO.	REMARKS: 11:00 TO 7:00 DRIG W/1/4 HR IRIG @ 1528 1/4 HR JET @ 1621 + JET 1/4 HR @ 1899				

FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER
				8 Greg Davidson
				8 Jack Millard
			32 GEL	8 Dennis Brack <sup>35 mi</sup>
			3 CAUSTIC	8 Bill McLaren
			3 SAND FISH	
			1 LIQUID	
			1 DAPAC	

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO. SIZE MAKE SERIAL NO. SERIAL NO.	REMARKS:				

FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER
1280	1525			8 Don Fopp
				8 Dunna Fopp
			48 - Gels	8 Richard Wilson
			1 - 1/2" bit	8 Albin Ors <sup>50 mi</sup>
			3 - - Chertic	
			3 - Side Cuts	

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO. SIZE MAKE SERIAL NO. SERIAL NO.	REMARKS: Rig - Jet				

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STATE CORPORATION COMMISSION

JUL 16 1991



# L. D. DRILLING, INC.

GREAT BEND, KANSAS

# DAILY DRILLING RECORD

15.145.21363.0000

FOR 24 HOURS ENDING AT MIDNIGHT

5-4 19 91 RIG NO. 1

WELL OWNER GRADY BOLDING CORP

LEASE BLAKE

WELL NO. 1

SECTION 11 TOWNSHIP 20 RANGE 16

COUNTY PAWNEE

STATE KS.

IF INJURED: SIGN AND DESCRIBE INJURY UNDER REMARKS

WE HAVE NOT BEEN INJURED THIS DAY

FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER	OTHER
2525	2755			8 MARKA SANDER	25 miles
✓ RIG	1/4			8 KENNETH CRUSE	
DISPLACE	3/4 hr			8 MATT LISTON	
CONN	1/2 hr			8 CLENTON DUKE	
DRUGED	6 1/2 hrs				

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO.	REMARKS: 11:00 TO DRUG w/ 1/4 hr ✓ RIG + JET @ 2552				
SIZE	DISPLACE @ 2705 1/2 hr + @ 2720 1/4 hr				
MAKE					
SERIAL NO.					
SERIAL NO.					

FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER	OTHER
				8 Greg Davidson	
				8 Jack Millard	
				8 Bill McLaren	
				8 Layton Clark	35mi

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO.	REMARKS:				
SIZE					
MAKE					
SERIAL NO.					
SERIAL NO.					

FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER	OTHER
3020	3185			8 Don Papp	50mi
				8 Duane Papp	
				8 Richard Wilson	
				8 Alton Gibbs	

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO.	REMARKS: ✓				
SIZE					
MAKE					
SERIAL NO.					
SERIAL NO.					

RECEIVED  
STATE CORPORATION COMMISSION

JUL 16 1991

CONSERVATION DIVISION  
Wichita, Kansas

# L. D. DRILLING, INC.

GREAT BEND, KANSAS

# DAILY DRILLING RECORD

15.145.21363.0000

FOR 24 HOURS ENDING AT MIDNIGHT

5-5 1991 RIG NO. 1

WELL OWNER GRADY BOLDING CORP. LEASE BLAKE WELL NO. 1

SECTION 11 TOWNSHIP 20 RANGE 16 COUNTY PAWNEE STATE Ks.  
IF INJURED: SIGN AND DESCRIBE INJURY UNDER REMARKS WE HAVE NOT BEEN INJURED THIS DAY

FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER
3185	3350			8 MARK A. SANDER 25 miles
				8 KENNETH CRUSE
Rig ✓	1/4 hr			8 MATT LISTON
				8 CLINTON DUKE
DELGEX	7 3/4 hrs			HELPER

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO.	REMARKS: 11:00 TO 7:00 DRIG w/ 1/4 hr ✓ RIG				
SIZE					
MAKE					
SERIAL NO.					
SERIAL NO.					

FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER
3350	3515		Shale & Lime	8 Bill McLaren
				8 Jack Millard
Rig ✓	1/4 Hr.		22 Colls	8 Dennis Black 35mi
Comps	1/4 Hr.		2 Caustic Supp	
Delg	7 hrs		1 Sand Ash	8 Layton Clark
Jet	1/4 Hr.		1 Dr Pac	
Ell Pac	1/4 Hr.		1 Lignite	
			6 H Bits	HELPER

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO.	REMARKS: 7:00 - 8:00 Drig. @ 3357 serv Rig & Clean Screen				
SIZE	@ 3452 Jet to add Pacmix				
MAKE					
SERIAL NO.					
SERIAL NO.					

FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER
3515	3595			8 Don Fopp
				8 Duane Fopp 50mi
			10-gal	8 Richard Wilson
			1-Caustic	
			6-Hulls	8 Alan Ochs
				HELPER

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO.	REMARKS: Bit Trip @ 3525'				
SIZE					
MAKE					
SERIAL NO.					
SERIAL NO.					

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JUL 16 1991

# L. D. DRILLING, INC.

# DAILY DRILLING RECORD

GREAT BEND, KANSAS

FOR 24 HOURS ENDING AT MIDNIGHT

5-6 1991 RIG NO. 1

WELL OWNER GRADY BOLDING CORP.

LEASE BLAKE

WELL NO. 1

SECTION 11 TOWNSHIP 20 RANGE 16

COUNTY PAWNEE

STATE KS.

IF INJURED: SIGN AND DESCRIBE INJURY UNDER REMARKS

WE HAVE NOT BEEN INJURED THIS DAY

DRILLED FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER
3595	3700			8 MARK A. SANDER 25 MILES
				8 KENNETH CRUSE
				8 MATT LISTON
			10 GEL	8 CLAYTON DUKE
				HELPER

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO.	REMARKS: 11:00 to 7:00 DRUG w/ 1/4 HR V RIG @ 3609				
SIZE					
MAKE					
SERIAL NO.					
SERIAL NO.					

DRILLED FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER
3700				8 KREG DAVIDSON
				8 BILL McLAVER
				8 DENNIS BRACK
				8 LAYTON CLARK
				HELPER

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO.	REMARKS: CES @ 3752 3/4 hr.				
SIZE	CES @ 3763 1 1/4 hr				
MAKE					
SERIAL NO.					
SERIAL NO.					

DRILLED FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER
3775				8 Don Fopp
				8 Dunne Fopp
			8 1/2 hr	8 Richard Wilson 5pm
				8 Alton Ochs
				HELPER

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO.	REMARKS: Dst #1 8 1/2 hr				
SIZE					
MAKE					
SERIAL NO.					
SERIAL NO.					

RECEIVED STATE CORRELATION COMMISSION

JUL 16 1991

# L. D. DRILLING, INC.

GREAT BEND, KANSAS

15.145.21363.0000  
DAILY DRILLING RECORD

FOR 24 HOURS ENDING AT MIDNIGHT

5-7 19 91 RIG NO. 1

WELL OWNER GRADY BOLDING CORP

LEASE BLAKE

WELL NO. 1

SECTION 11 TOWNSHIP 20 RANGE 16

COUNTY PAWNEE

STATE Ks.

IF INJURED: SIGN AND DESCRIBE INJURY UNDER REMARKS

WE HAVE NOT BEEN INJURED THIS DAY

DRILLED FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER	DERRICKMAN	MOTORMAN	HELPER
3775	3788			8 MARK A. SANDER	8 KENNETH CRUSE	8 MATTHEW HUSTON 25 MILES	8 CLENTON DUKE
CTCH	3/4 hr						
CFS	1 1/4 hr						
			CO. TIME 7 1/4 hr				
DRILLED	3/4 hr						

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO.	REMARKS: 11:00 to 11:45 CTCH @ 3775 11:45 to 12:30 DRG 12:30 to 1:45 CFS @ 3788 1:45 to 7:00 DST #2 3775 to 3788				
SIZE					
MAKE					
SERIAL NO.					
SERIAL NO.					

DRILLED FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER	DERRICKMAN	MOTORMAN	HELPER
3788	3803			8 RICHARD WILSON	8 W. K. MILLER	8 DENNIS BRACK 30 mi	8 LAYTON CLARK 30 mi
			15 DAVIS GEL				
			1 CAUSTIC SODA				
			1 SODA ASH				
			1 LIGNITE				

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO.	REMARKS: 7-1015 DST 2 1015-11 DRG 11-12 CFS @ 3803 12-3 DST #3				
SIZE					
MAKE					
SERIAL NO.					
SERIAL NO.					

DRILLED FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER	DERRICKMAN	MOTORMAN	HELPER
3803	3818			8 Don Topp 50 mi	8 Duane Topp	8 Richard Wilson	8 Bill McBarne
			7 1/4 hr Estimation				

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO.	REMARKS: DST #3 5 1/4 hr CFS @ 3818 1 hr DST #4 1 hr				
SIZE					
MAKE					
SERIAL NO.					
SERIAL NO.					

STATE COMPLETION COMMISSION

JUL 16 1991

CONSERVATION DIVISION  
Wichita Falls

# L. D. DRILLING, INC.

GREAT BEND, KANSAS

15.145.21363.0000  
DAILY DRILLING RECORD

FOR 24 HOURS ENDING AT MIDNIGHT

5-8 1991 RIG NO. 1

WELL OWNER GRADY DRILLING CORP LEASE BLAKE WELL NO. 1

SECTION 11 TOWNSHIP 20 RANGE 16 COUNTY PAWNEE STATE Ks  
IF INJURED: SIGN AND DESCRIBE INJURY UNDER REMARKS WE HAVE NOT BEEN INJURED THIS DAY

FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER
3818				8 MARK A. SANDER
				8 KENNETH CRUSE
				8 MATTHEW 25 MILES
				8 CLETON DUKE
			Co. TIME 8 hrs	

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO.	REMARKS: 11:00 TO 7:00 DST #4 3800-3818 30-45-45-45				
SIZE	RECOVER 60' HEAVY GASEY OIL CUT MUD				
MAKE					
SERIAL NO.					
SERIAL NO.					

FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER
3818	3880		Arb.	14 BRED DRILLERSON
				8 WICK MILLARD
				8 DENNIS BROCK
			3 1/2 d. l. o. 4 1/2 m'	8 LAYTON CLARK 30mi

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO.	REMARKS: 7-745 CTCH @ 3813 745-845 d. l. o.				
SIZE	845-945 CES 3833 945-1215 d. l. o.				
MAKE	1215-3 CES @ 3980 OK FOR LOG				
SERIAL NO.					
SERIAL NO.					

FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER
3980			Arb.	8 Bill McLaren
			RECEIVED	8 Duane Papp
			STATE CORPORATION COMMISSION	8 Richard Wilson
			JUL 16 1991	*8 ALLEN OCHS 50mi

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO.	REMARKS: 3:00-5:15 Logging 5:15-6:00 w o.o. 6:00-7:35				
SIZE	TRIP IN W/Bit & Break Circ. 7:35-9:05 CTCH 9:05-				
MAKE	11:00 LAYDOWN Pipe				
SERIAL NO.					
SERIAL NO.					

# L. D. DRILLING, INC.

GREAT BEND, KANSAS

15.145.21363.0000  
DAILY DRILLING RECORD

FOR 24 HOURS ENDING AT MIDNIGHT

5-9 19 91 RIG NO. 1

WELL OWNER \_\_\_\_\_ LEASE \_\_\_\_\_ WELL NO. \_\_\_\_\_

SECTION \_\_\_\_\_ TOWNSHIP \_\_\_\_\_ RANGE \_\_\_\_\_ COUNTY \_\_\_\_\_ STATE \_\_\_\_\_  
IF INJURED: SIGN AND DESCRIBE INJURY UNDER REMARKS WE HAVE NOT BEEN INJURED THIS DAY

DRILLED FROM	DRILLED TO	FEET DRILLED	FORMATION	10 DRILLER	MARK A. SANDER 25 AKES
				10 DERRICKMAN	KENNETH CRUSE
				10 MOTORMAN	MATTHEW STON
				10 HELPER	CLENTON DUKE
				HELPER	

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO.	REMARKS: 11:00 TO 11:30 LAY DOWN COILS 11:30 TO 12:45 RIG UP TO				
SIZE	RUN CASING 12:45 TO 2:30 RUN CASING 2:30 TO 3:45 CEMENT				
MAKE	3:45 TO TEAR DOWN				
SERIAL NO.					
SERIAL NO.					

DRILLED FROM	DRILLED TO	FEET DRILLED	FORMATION	14 DRILLER	ERIC DAVIDSON
				14 DERRICKMAN	WACK MILLARD
				14 MOTORMAN	DENNIS BRACKSON
				14 HELPER	LAYTON CLARK
				HELPER	

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO.	REMARKS: RIG UP RIG UP				
SIZE					
MAKE					
SERIAL NO.					
SERIAL NO.					

DRILLED FROM	DRILLED TO	FEET DRILLED	FORMATION	8 DRILLER	DON POPP
				8 DERRICKMAN	BILL McBARROW
				8 MOTORMAN	RICHARD WILSON 60mi
				8 HELPER	ALAN OCHS
				HELPER	

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO.	REMARKS: RIG UP				
SIZE					
MAKE					
SERIAL NO.					
SERIAL NO.					

RECEIVED  
STATE CORPORATION COMMISSION

JUL 16 1991

INVOICE

HALLIBURTON SERVICES

A Halliburton Company

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

INVOICE NO.	DATE
15.145.21363.0000	05/09/1991

WELL LEASE NO./PLANT NAME	WELL/PLANT LOCATION	STATE	WELL/PLANT OWNER
BLAKE-1	PAWNEE	KS	SAME
SERVICE LOCATION	CONTRACTOR	JOB PURPOSE	TICKET DATE
GREAT BEND	L.D. DRILLING CO.	CEMENT PRODUCTION CASING	05/09/1991
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER
087431	ROGER REYNOLDS		
			SHIPPED VIA
			COMPANY TRUCK
			FILE NO.
			15102

DIRECT CORRESPONDENCE TO:

GRADY BOLDING CORP  
114 NORTH MAIN  
P O BOX 486  
ELLINWOOD, KS 67526

FIRST OKLAHOMA TOWER  
210 WEST PARK AVENUE  
SUITE 2050  
OKLAHOMA CITY, OK 73102-5601

PRICE REF. NO.	DESCRIPTION	QUANTITY	UOM	UNIT PRICE	AMOUNT
000-117	PRICING AREA - MID CONTINENT MILEAGE	24	MI	2.60	62.40
001-016	CEMENTING CASING	3880	FT	1,240.00	1,240.00
030-018	CEMENTING PLUG SW. PLASTIC TOP	5 1/2	IN	60.00	60.00
019-241	CASING SWIVEL W/O WALL CLEANER	1	JOB	155.00	155.00
12A	GUIDE SHOE - 5 1/2" BRD THD	1	EA	105.00	105.00
825.205	INSERT FLOAT VALVE - 5 1/2" BRD	1	EA	83.00	83.00
24A	FILL-UP UNIT 5 1/2"-6 5/8"	1	EA	30.00	30.00
815.19251	CENTRALIZER 5-1/2" MODEL S-4	5	EA	44.00	220.00
27	CEMENT BASKET 5 1/2"	2	EA	90.00	180.00
815.19311	HALLIBURTON WELD-A	1	LB	11.50	11.50
40	STANDARD CEMENT	84	SK	5.35	449.40
807.93022	POZMIX A	56	SK	2.79	156.24
320	HALLIBURTON-GEL 2%	2	SK	.00	N/C
800.8883	SALT	400	LB	.10	40.00
350	SALT	1250	LB	.10	125.00
890.10802	GILSONITE, SACKED	500	LB	.47	235.00
504-308	CFR-3	61	LB	4.10	250.10
506-105	FLOCELE	36	LB	1.30	46.80
506-121	GASSTOP	22	LB	29.00	638.00
509-968	BULK SERVICE CHARGE	186	CFT	1.15	213.90
509-968	MILEAGE CMTG MAT DEL OR RETURN	174.60	TMI	.80	139.68

RECEIVED  
STATE CORPORATION COMMISSION  
JUL 16 1991  
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 ATTORNEY FEES IN THE AMOUNT OF 20% OF THE AMOUNT OF THE UNPAID ACCOUNT.

# HALLIBURTON SERVICES

INVOICE

A Halliburton Company

15.145.21363.0000

INVOICE NO.	DATE				
126378	05/09/1991				
WELL LEASE NO./PLANT NAME	WELL/PLANT LOCATION	STATE	WELL/PLANT OWNER		
BLAKE 317	PAWNEE	KS	SAME		
SERVICE LOCATION	CONTRACTOR	JOB PURPOSE	TICKET DATE		
GREAT BEND	L.D. DRILLING CO.	CEMENT PRODUCTION CASING	05/09/1991		
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.
087431	ROGER REYNOLDS			COMPANY TRUCK	15102

DIRECT CORRESPONDENCE TO:

GRADY BOLDING CORP  
 114 NORTH MAIN  
 P O BOX 486  
 ELLINWOOD, KS 67526

FIRST OKLAHOMA TOWER  
 210 WEST PARK AVENUE  
 SUITE 2050  
 OKLAHOMA CITY, OK 73102-5601

PRICE REF. NO.	DESCRIPTION	QUANTITY	U/M	UNIT PRICE	AMOUNT
	INVOICE SUBTOTAL				4,441.02
	DISCOUNT-(BID)				666.13-
	INVOICE BID AMOUNT				3,774.89
	*-KANSAS STATE SALES TAX				101.83
	*-BARTON COUNTY SALES TAX				23.98
	INVOICE TOTAL - PLEASE PAY THIS AMOUNT				\$3,900.70

RECEIVED  
 STATE CORPORATION COMMISSION  
 JUL 16 1991  
 CONSERVATION DIVISION  
 Wichita, Kansas

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 ATTORNEY FEES IN THE AMOUNT OF 20% OF THE AMOUNT OF THE UNPAID ACCOUNT.



Russell, Kansas

15. 145. 21363. 0000

Phone Plainville 913-434-2812

5861, Great Bend, Kansas

Phone Ness City 913-798-3843

No 2729

# ALLIED CEMENTING CO., INC.

Home Office P. O. Box 31

Russell, Kansas 67665

New

Date	5-2-91	Sec.	11	Twp.	20	Range	16	Called Out	2:00 AM	On Location	4:30 AM	Job Start	7:00 AM	Finish	7:45 AM
Lease	Blake	Well No.	# 1	Location	10. West Rd + Albert Block Top			County	Pawnee	State	KS				
Contractor	H. D. Drilling Rigs # 1					Owner	Same								
Type Job	Surface Pipe Job					To Allied Cementing Co., Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.									
Hole Size	12 1/4	T.D.	1054 #												
Csg. 23	8 5/8	Depth	1053 #												
Tbg. Size		Depth													
Drill Pipe		Depth													
Tool		Depth													
Cement Left in Csg.	20 #	Shoe Joint													
Press Max.		Minimum													
Meas Line	1033 #	Displace	66.3 bbl												
Perf.															

### EQUIPMENT

Great Bend

Pumptrk	No.	Cementor	Mike
	120	Helper	Brad
Pumptrk	No.	Cementor	
		Helper	
Bulktrk	179	Driver	Duane
		Driver	

DEPTH of Job 1053 #

Reference:	Pump Truck charge	380.00
20	mileage charge	40.00
1	Rubber Plug	63.00
	753' 39	293.67
	Total	776.67

Remarks: Cement did circulate

Charge To: Grady Bolding Corporation

Street: 114 N. Main

City: Ellinwood State: Ks. 67526

The above was done to satisfaction and supervision of owner agent or contractor.

Purchase Order No. X

Amount Ordered: 375.00 2+3

Consisting of

Common	225	5.25	1181.25
Poz. Mix	150	2.25	337.50
Gel.	8	6.75	NIC
Chloride	11	21.00	231.00
Quickset			

RECEIVED STATE CONSERVATION COMMISSION

Handling 375 1.00 375.00

Mileage 20 JUL 16 1991 300.00

CONSERVATION DIVISION Wichita, Kansas

Total \$ 2424.7

Floating Equipment

1. Mide shoe 8 5/8 - 220.00

Total \$ 3421.42

Disc - 513.22

Allied Cementing Co Inc  
Mike Munch

Thank you

Guide shoe was not included in original Bid

\$ 2908.20