

ORIGINAL

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

API NO. 15- 009-246010000

County Barton

- SW - SW - SE Sec. 30 Twp. 17 Rge. 11 X W

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

2310 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 GRACE SCHNEWEIS Well # 1

Field Name Drews Extension

Producing Formation Marmaton/Kansas City

Elevation: Ground 1833' KB 1838'

Total Depth 3420' PBDT

Amount of Surface Pipe Set and Cemented at 289 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 I 5-30-96
(Data must be collected from the Reserve Pit) RW

Chloride content 10,000 ppm Fluid volume 1500 bbls

Dewatering method used normal separation in pit

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 # 7383

Name: GRADY BOLDING CORPORATION

Address P.O. Box 486

Ellinwood, KS 67526

City/State/Zip

Purchaser: N.C.A.A.

Operator Contact Person: Grady Bolding

Phone (316) 564-2240

Contractor: Name: ALLEN DRILLING COMPANY

License: 5418

Wellsite Geologist: James C. Musgrove

Designate Type of Completion

X New Well Re-Entry Workover

Oil SWD SIOW Temp. Abd.

Gas ENHR SIGW

Dry Other (Core, WSW, Expl., Cathodic, etc)

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

Operator: N/A

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.

11/06/95 11/11/95 11/27/95

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 Grady Bolding
Title President Date 2-17-96

Subscribed and sworn to before me this 17th day of February, 1996.

Notary Public Jenny Kasselmann

Date Commission Expires 7-16-98



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

FEB 22 1996

Operator Name GRADY BOLDING CORPORATION Lease Name GRACE SCHNEWEIS Well # 1
 Sec. 30 Twp. 17 Rge. 11 East County Barton
 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
 See attached

List All E.Logs Run:
 Dual Induction Laterolog
 Compensated Density Dual Spaced Neutron Log
 Computer Analyzed Log
 Acoustic Cement Bond Log

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	# Sacks Used	Type and Percent Additives
surface	12-1/4"	8-5/8"	28#	289'	60/40poz	165	2%gel 3%cc
production	7-7/8"	5-1/2"	15.5#	3419'	ASC - 10% salt -	150	500 gal WFR2

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
2	3324-3328	500 gal. mud acid/1000 gal 15% NE
2	3303-3308, 3267-3272	1000 gal. 15% NE

TUBING RECORD	Size	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
3364	2 3/8" EUE	3386	none	
Date of First, Resumed Production, SWD or Inj.		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 <input checked="" type="checkbox"/> Bbls.	Gas <input checked="" type="checkbox"/> sufficient to run engine	Water <input type="checkbox"/> Bbls.	Gas-Oil Ratio <input type="checkbox"/> Gravity <u>36</u>

Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACO-18.)
 METHOD OF COMPLETION: Open Hole Perf. Dually Comp. Commingled
 Production Interval: 3267-72'
3303-08'
3324-28'

ALLIED CEMENTING CO., INC.

2498

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

ORIGINAL

SERVICE POINT: Russell

DATE <u>11-12-95</u>	SEC. <u>30</u>	TWP. <u>17</u>	RANGE <u>11</u>	CALLED OUT	ON LOCATION <u>2 AM</u>	JOB START	JOB FINISH <u>8:30 AM</u>
LEASE <u>Schneiders</u> WELL# <u>1</u>				LOCATION <u>Odio 1E 25 1E</u>		COUNTY <u>Barton</u>	STATE <u>Kan</u>
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR Allen Drlg
 TYPE OF JOB Prod String
 HOLE SIZE 7 7/8 T.D. 3420
 CASING SIZE 5 1/2 DEPTH 3419
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL DEPTH
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT 14.90
 CEMENT LEFT IN CSG. 15'
 PERFS.

OWNER Scum
 CEMENT
 AMOUNT ORDERED 150 ASC 10% salt
500gal WFR2

COMMON	@		
POZMIX	@		
GEL	@		
CHLORIDE	@		
<u>ASC</u>	<u>150</u>	@	<u>7.85</u> <u>1177.50</u>
<u>Salt</u>	<u>14</u>	@	<u>7.00</u> <u>98.00</u>
<u>WFR-2</u>	<u>500gals</u>	@	<u>1.00</u> <u>500.00</u>
		@	
HANDLING	@	<u>1.05</u>	<u>157.50</u>
MILEAGE <u>4 1/2 Sh / Mile</u>			<u>132.00</u>

EQUIPMENT

PUMP TRUCK CEMENTER McAdoo
 # 153 HELPER Dave F
 BULK TRUCK
 # 282 DRIVER Steve
 BULK TRUCK
 # DRIVER

TOTAL 2065.00

REMARKS:

Cent. 2, 4, 6, 8, 10, 12
plug Rat hole w/ 15 sk
Float Held

SERVICE

DEPTH OF JOB			
PUMP TRUCK CHARGE			<u>1030.00</u>
EXTRA FOOTAGE	@		
MILEAGE <u>22</u>	@	<u>23.5</u>	<u>517.00</u>
PLUG <u>5 1/2 Rubber</u>	@		<u>50.00</u>
	@		
	@		
TOTAL			<u>1131.70</u>

CHARGE TO: Grady Balding Corp.
 STREET 224 N Main
 CITY Ellinwood STATE Kansas ZIP 67526

FLOAT EQUIPMENT

<u>Guide Shoe</u>	@		<u>168.00</u>
<u>Insert</u>	@		<u>263.00</u>
<u>Cent 6</u>	@	<u>56.00</u>	<u>336.00</u>
	@		
	@		
TOTAL			<u>767.00</u>

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 is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND CONDITIONS" listed on the reverse side.

SIGNATURE Mike Kern

TAX _____
 TOTAL CHARGE _____
 DISCOUNT _____

RECEIVED IN 30 DAYS
 KANSAS CORPORATION COMMISSION
 FEB 22 1996
 CONSERVATION DIVISION
 WICHITA, KS

ALLIED CEMENTING CO., INC.

4854

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

ORIGINAL

SERVICE POINT:

Grand River
11-17-95

DATE <u>11-6-95</u>	SEC. <u>30</u>	TWP. <u>17</u>	RANGE <u>11</u>	CALLED OUT <u>10 AM</u>	ON LOCATION <u>11 AM</u>	JOB START <u>1 AM</u>	JOB FINISH <u>2 AM</u>
LEASE <u>Sehnewis</u>		WELL # <u>1</u>	LOCATION <u>K.H. Hwy + Odin Rd. 1/4 NW 3/4</u>			COUNTY <u>Barton</u>	STATE <u>Ks</u>

OLD OR NEW (Circle one)

CONTRACTOR Allen Drilling Rig #3

TYPE OF JOB Surface Pipe Job

HOLE SIZE 12 1/4 T.D. 295 ft

CASING SIZE 2 3/8 DEPTH 289 ft

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX 100 MINIMUM _____

MEAS. LINE 274 ft SHOE JOINT _____

CEMENT LEFT IN CSG. 15 ft

PHASES Displacement 17.0 bbl

OWNER Same

CEMENT

AMOUNT ORDERED

165 @ 40 37cc 2 3/4

COMMON	<u>99</u>	@	<u>6.10</u>	<u>603.90</u>
POZMIX	<u>66</u>	@	<u>3.15</u>	<u>207.90</u>
GEL	<u>3</u>	@	<u>9.50</u>	<u>28.50</u>
CHLORIDE	<u>5</u>	@	<u>28.00</u>	<u>140.00</u>
		@		
		@		
		@		
		@		
		@		
HANDLING	<u>165</u>	@	<u>1.05</u>	<u>173.25</u>
MILEAGE	<u>22</u>			<u>145.20</u>

TOTAL \$ 1298.75

EQUIPMENT

PUMP TRUCK CEMENTER Mike M.

120 HELPER Dunne S.

BULK TRUCK DRIVER _____

BULK TRUCK DRIVER Pickw.

REMARKS:

Circulate Hole with Rig mud pump

Mix Cement Release plug

Displace plug Down with water

Cement-diel - Circulate to Surface

SERVICE

DEPTH OF JOB	<u>289 ft</u>			
PUMP TRUCK CHARGE				<u>445.00</u>
EXTRA FOOTAGE		@		
MILEAGE	<u>22</u>	@	<u>2.35</u>	<u>51.70</u>
PLUG <u>1-8 E wood plug</u>		@	<u>45.00</u>	<u>45.00</u>
		@		
		@		

TOTAL \$ 541.70

CHARGE TO: Grady Bolding Corp

STREET P.O. Box 486

CITY Ellinwood STATE K.S. ZIP 67526

316-564-2240

FLOAT EQUIPMENT

	@			
	@			
	@			
	@			
	@			

TOTAL _____

TAX -0-

TOTAL CHARGE \$ 1840.45

DISCOUNT \$ 368.09 IF PAID IN 30 DAYS

Net \$ 1472.36

RECEIVED
KANSAS CORPORATION COMMISSION
FEB 22 1996
CONSERVATION DIVISION
WICHITA, KS

Thank you
Allied Cementing Co. Inc.
Mike + Dunne + Pickw.

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 is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND CONDITIONS" listed on the reverse side.

SIGNATURE Mike Kern

JAMES C. MUSGROVE
Petroleum Geologist
2021 Forest
P.O. Box 1162
Great Bend, Kansas 67530

ORIGINAL

Office (316) 792-7716

Res. Claflin (316) 587-3444

15-009-24601

Grady Bolding Corp.
Grace Schneewis #1
SW-SW-SE; Section 30-17s-11w
Barton County, Kansas
Page 1

5½" Production Casing Set

Contractor: Allen Drilling Co. (Rig #3)
Commenced: November 7, 1995
Completed: November 12, 1995
Elevation: 1838' K.B., 1836' D.F., 1833' G.L.
Measurements: All depths measured from the Kelly Bushing.
Casing Program: Surface; 8 5/8" @ 289'
Samples: Ten (10) ft. samples saved and examined 2350' to the Rotary Total Depth.
Drilling Time: One (1) ft. drilling time recorded and kept 2350' to the Rotary Total Depth.
Electric Log: By Halliburton Logging Services; Dual Induction Laterolog, Compensated Density Dual Spaced Neutron Log, and Computer Analyzed Log.
Drill Stem Test: There were two (2) Drill Stem Tests ran by Swift Formation Testers.

<u>Formation</u>	<u>Electric Log Depth</u>	<u>Sub-sea Datum</u>
Anhydrite	677	+1161
Howard	2616	-778
Topeka	2650	-812
Heebner	2948	-1110
Toronto	2965	-1127
Douglas	2980	-1142
Brown Lime	3055	-1217
Lansing	3072	-1234
Base Kansas City	3314	-1476
Conglomerate	3328	-1490
Arbuckle	3398	-1560
Rotary Total Depth	3420	-1582
Log Total Depth	3422	-1584

(All tops and zones corrected to Electric Log Measurements)

RECORDED
INDEXED
NOV 15 1995
BARTON COUNTY, KANSAS

SAMPLE ANALYSIS, SHOWS OF OIL, TESTING DATA, ETC.

TOPEKA SECTION

- 2807-2875' Limestone; tan to gray, fossiliferous, slightly chalky, fair porosity, no shows.
- 2892-2904' Limestone; gray to white, fossiliferous, chalky, black to brown stain, trace of free oil and no odor in fresh samples.
- 2912-2932' Limestone; gray to white to tan, fossiliferous, chalky, plus chert gray, white, fossiliferous, no shows.

TORONTO SECTION

- 2965-2976' Limestone; cream to white, dolomitic, scattered intercrystalline porosity, spotty brown to golden brown stain, trace of free oil and faint odor in fresh samples.

DRILL STEM TEST #1 2942-2979'

Times: 30-30-45-45

Blow: Weak

Recovery: 60' muddy water

Pressures: ISIP 966 psi
FSIP 949 psi
IFP 33-33 psi
FFP 51-51 psi
HSH 1453-1440 psi

DOUGLAS SECTION

- 2999-3009' Sand; very fine to medium grained, sub-angular to sub-rounded, fair to good sorting, few shaley, friable, good intergranular porosity, questionable discoloration, show of gas bubbles and no odor in fresh samples.

LANSING SECTION

- 3072-3076' Limestone; white, fossiliferous, chalky, dark brown to black stain, trace of free oil and no odor in fresh samples.
- 3080-3086' Limestone; as above, plus gray chert.
- 3105-3114' Limestone; white, oolitic, poor visible porosity, trace spotty golden brown stain, no show of free oil or odor in fresh samples.
- 3123-3126' Limestone; tan, gray, finely crystalline, fossiliferous, chalky in part, trace stain, no show of free oil or odor (trace limestone, cream, oolitic, black spotty stain).
- 3135-3140' Limestone; gray, highly oolitic, poor visible porosity, questionable stain, no show of free oil or odor in fresh samples.
- 3145-3150' Limestone; tan, finely crystalline, fossiliferous, chalky in part, plus chert, white to gray, fossiliferous, no shows.
- 3173-3182' Limestone; tan, sub-ocastic, chalky, fair porosity, no shows.
- 3204-3210' Limestone; cream to white to tan, oolitic, chalky (dense), no show

- 3220-3228' Limestone; tan, oolitic, oocastic, poorly developed oocastic porosity, no shows.
- 3235-3249' Limestone; gray to tan, oocastic, oolitic, slightly chalky, scattered fair to good oocastic porosity, no shows.
- 3266-3274' Limestone; white to cream, oolitic, chalky in part, spotty dark brown to brown stain, fair show of free oil (black) and faint odor when sample broken.
- 3302-3308' Limestone; tan, finely crystalline, fossiliferous, scattered porosity, few pieces, golden brown stain, trace free oil and faint odor in fresh samples.

DRILL STEM TEST #2 3252-3318'

Times: 45-45-60-60

Blow: Weak

Recovery: 150' gas in pipe
2' clean oil
35' muddy oil

Pressures: ISIP 807 psi
FSIP 655 psi
IFP 76-76 psi
FFP 93-93 psi
HSH 1629-1610 psi

MARMATON SECTION

- 3322-3328' Limestone; white to tan, fossiliferous, scattered porosity, brown to black stain, trace of free oil and no odor in fresh samples.

CONGLOMERATE SECTION

- 3328-3398' Chert; white to red to orange, oolitic, opaque plus white to gray to red boney chert, and sand, very fine grained, well cemented, all in matrix of red to blood red soft shales, no shows.

ARBUCKLE SECTION

- 3398-3402' Dolomite; gray, fine to medium crystalline, few sucrosic, poor porosity, no shows.
- 3402-3410' Dolomite; gray to white, few sandy, good intercrystalline porosity, no shows.
- 3410-3422' Dolomite; as above, good porosity, no shows.

Rotary Total Depth 3420 (-1582)
Log Total Depth 3422 (-1584)

RECOMMENDATIONS

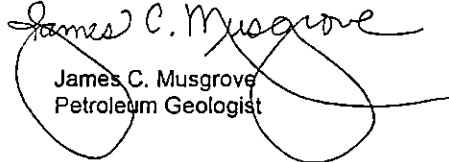
On the basis of log calculation and positive recovery of Drill Stem Test #2, it was recommended by all parties involved to set and cement 5½" production casing

Grady Bolding Corp.
Grace Scheweis #1
SW-SW-SE; Section 30-17s-11w
Barton County, Kansas
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at 3420' (two foot off bottom) and to further test the following zones in the Grace Scheweis #1:

- | | | |
|----------------|------------|-----------|
| 1. Marmaton | 3324-3328' | perforate |
| 2. Lansing 'L' | 3303-3308' | perforate |
| 3. Lansing 'K' | 3267-3272' | perforate |

Respectfully submitted,


James C. Musgrove
Petroleum Geologist