

**CONFIDENTIAL**

SIDE ONE

175-21415-0000 **ORIGINAL**

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

Operator: License # 30606

Name: Murfin Drilling Co., Inc.

Address 250 N. Water, Suite 300

City/State/Zip Wichita, KS 67202

Purchaser: \_\_\_\_\_

Operator Contact Person: Larry M. Jack

Phone ( ) 267-3241

Contractor: Name: Murfin Drilling Co., Inc.

License: 30606

Wellsite Geologist: Chuck Schmaltz

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  PBTD  
 Commingled  Docket No. \_\_\_\_\_  
 Dual Completion  Docket No. \_\_\_\_\_  
 Other (SWD or Inj?)  Docket No. \_\_\_\_\_

12/28/94 1/17/95  
Spud Date Date Reached TD Completion Date

API NO. 15- 175-21415-0000

County Seward

SE NE SW Sec. 2 Twp. 32S Rge. 31W E

1650 Feet from S/W (circle one) Line of Section

2970 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 Langhofer Well # 1-2

Field Name Unknown

Producing Formation \_\_\_\_\_

Elevation: Ground 2778 KB 2787

Total Depth 5986 PBTD \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at 1640 Feet

Multiple Stage Cementing Collar Used?  Yes  No

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

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

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

Drilling Fluid Management Plan AIT I 3-21-96  
(Data must be collected from the Reserve Pit) RD

Chloride content 4500 ppm Fluid volume 2500 bbls

Dewatering method used evaporation

Location of fluid disposal if hauled offsite:  
**RELEASED**

Operator Name \_\_\_\_\_

Lease Name \_\_\_\_\_ License No. \_\_\_\_\_

Quarter Sec. FROM CONFIDENTIAL E7W

County \_\_\_\_\_ Docket No. \_\_\_\_\_

**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 By: Larry M. Jack

Title Larry M. Jack, Prod. Mgr. Date 2/3/95

Subscribed and sworn to before me this 3 day of Feb. 19 95.

Notary Public Kerran Redington  
KERRAN REDINGTON  
NOTARY PUBLIC  
STATE OF KANSAS  
My Appl. Exp. 2-6-98

2-7-95

**K.C.C. OFFICE-USE ONLY**

Letter of Confidentiality Attached  
 Wireline Log Received  
 Geologist Report Received

Distribution  
 KCC  
 KGS  
 SWD/Rep  
 Other

**FEB 07 1995**  
PLUG VALVE (Specify)  
WICHITA, KANSAS

CONFIDENTIAL

Operator Name MURFIN DRILLING CO., INC.

Lease Name Langhofer

Well # 1-2

Sec. 2 Twp. 32S Rge. 31W

East  
 West

County Seward

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.)

List All E.Logs Run:

see attached

Log Formation (Top), Depth and Datum  Sample

Name Top Datum

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	24#	1640	Class A Lite	150 550	3% cc

03243.134

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth		Type of Cement	#Sacks Used	Type and Percent Additives
	Top	Bottom			
<input type="checkbox"/> Perforate					
<input type="checkbox"/> Protect Casing					
<input type="checkbox"/> Plug Back To					
<input type="checkbox"/> Plug Off Zone					

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type		Acid, Fracture, Shot, Cement Squeeze Record	
	Specify Footage of Each Interval Perforated		(Amount and Kind of Material Used)	Depth

TUBING RECORD	Size	Set At	Packer At	Liner Run
				<input type="checkbox"/> Yes <input type="checkbox"/> No

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 Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

Disposition of Gas:

METHOD OF COMPLETION

Production Interval

Vented  Sold  Used on Lease  
(If vented, submit ACO-18.)

Open Hole  Perf.  Dually Comp.  Commingled  
 Other (Specify) \_\_\_\_\_

\_\_\_\_\_

CONFIDENTIAL

ORIGINAL

Supplemental to ACO-1

.LANGHOFER #1-2  
.SE NE SW  
.1650' fSL 2970' fEL  
.Section 2-T32S-R31W  
.Seward County, KS  
.Page 1

DST #1: 3169-3184'  
30-60-30-90 (welding on the stand pipe)  
IF: 1" blow increased to 7"  
FF: 1/2 " blow increased to 3"  
REC: 60' MW (50% M, 50% W)  
120' SW  
HP: 1569-1415, SIP: 701-701, FP: 10-20/60-60, BHT: 110°  
RW: Top: .515 @ 57° - 11,000 ppm  
Mid: .347 @ 57° - 27,000 ppm  
Btm: .183 @ 59° - 60,000 ppm  
Sample Chamber: 4,000 ML Water, RW .183 @ 59° - 60,000 ppm chl.  
Pit: 6,500 ppm chl.

DST #2: 4384 - 4412 - LKC A zone  
30-45-30-45  
IF: wk 1/4" blow built to 2 inches  
FF: wk 1/4" blow built to 1 inch  
REC: 1' Cl O (5% G, 95% O)  
60' WM (40% W, 60% M)  
HP: 2240-2083, FP: 20-20/40-40, SIP: 1221-1170, BHT: 120°  
Sample Chamber: 3000 ml Mud, 1000 ml Wtr, 250 psi  
RW: Rec & Sample Chamber - .435 @ 45° - 38,000 ppm chlorides  
Pit - Chlorides 6,500 ppm

DST #3: 4852-4885 LKC Swope  
30-60-60-120  
IF: strong blow off btm of bkt in 8 min.  
FF: strong blow off btm of bkt in 18 min.  
REC: 120' MW (50% M, 50% W)  
840' SW  
960' Total Fluid  
HP: 2395-2384, SIP: 1488-1488, FP: 80-276/345-495, BHT: 130°  
RW: .082 @ 70½ - 160,000 ppm chl.  
Sample Chamber: 4000 Ml Water, 200 psi

DST #4: 5023-5066 - MARMATON/ALTAMONT "B"  
30-60-60-120  
IF: wk 1/4" blow increased to 2"  
FF" Started with a 7" blow increased to strong off the bottom of the bucket in 13 minutes.  
REC: 675' GIP  
30' Total Fluid (10% G, 60% M, 5% W, 25% GMO Emulsion)  
HP: 2427-2386, SIP: 701-843, FP: 30-30/40-40, BHT: 130°  
Sample Chamber: 3.6 cfG, tr O&M, 750 psi

DST #5: 5482-5512 - UPPER MORROW  
30-45-30-45  
IF: wk blow built to 4½"  
FF: wk blow built to 3"  
REC: 90' GIP  
30' Sl GCM (10% G, 90% M)  
HP: 2702-2611, FP: 57-57/57-57, SIP: 161-115, BHT: 132°  
Sample Chamber: .1 CFG, 3900 ccm, 50 psi

RELEASED

APR 9 1996

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.LANGHOFER #1-2  
.SE NE SW  
.1650' fSL 2970' fEL  
.Section 2-T32S-R31W  
.Seward County, KS  
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DST #6: 5504-5540 - MORROW

30-60

IF: wk blow built to strong off bottom of bkt in 30 sec.

FF:

REC: 1200' GIP

60' SI O&GCM (20% G, 5% O, 15% W, 60% M)

200' GCWM w/scum of oil (35% G, 30% W, 35% M)

HP: 2702-2600, SIP: 1293-1385, FP: 50-60/81-91 (tight knife edge)

BHT: 132°

Sample Chamber: 6.6 cf Gas, 500 ccm, 500 ccw, Tr O, 1200 PSI, .332  
@ 55°, Pit: 4000 ppm chl

DST #7: 5715-5733 Misrun Hit bridge 7½-8 stands off bottom.

DST #8: 5715-5733 CHESTER SAND

30-60-60-120

IF: wk blow built to 7½"

FF: wk blow built to 1"

REC: 10' SI OCM (5% O, 95% M)

HP: 2804-2702, SIP: 60-60, FP: 60-50/50-50, BHT: 135°

Sample Chamber: 50 cc Oil, 3950 cc Mud, 50 psi

DST #9: 5880-5916 ST LOUIS

30-60-90-120

IF: strong blow 30 sec

FF: strong blow 1 min

GTS 45 min

50 min 4.7 mcf

55 min 6.3 mcf

60 min 7.5 mcf

70 min 5.5 mcf

80 min 10.4 mcf

90 min 10.6 mcf

REC: 820' Total Fluid

180' O&GCM (20% G, 30% O, 50% M)

640 SW

HP: 2864-2738, SIP: 1593-1593, FP: 123-138, 246-307, BHT: 133°

Sample Chamber: 4000 cc Water, 0 psi

RW: .092 @ 69° - 120,000 ppm chl

Pit: 4000 ppm

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CONSERVATION DIVISION  
WICHITA, KANSAS

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ORIGINAL

.LANGHOFER #1-2  
.SE NE SW  
.1650' fSL 2970' fEL  
.Section 2-T32S-R31W  
.Seward County, KS  
. Page 3

LOG TOPS:

KB 2787

COLLINGWOOD

FIRST RUN

B/ANHYDRITE	1723 (+1064)	-8
KRIDER	2716 (+ 71)	-2
WINFIELD	2764 (+ 23)	-2
B/WINFIELD	2795 (- 8)	-5
WREFORD	2976 (- 189)	-2
COUNCIL GROVE	3066 (- 279)	-6
NEVA	3233 (- 446)	-11
RTD	3340 (- 553)	
LTD	3333 (- 546)	

SECOND RUN

HEEBNER	4288 (-1501)	-5
TORONTO	4305 (-1518)	-2
LANSING	4400 (-1613)	-4
SWOPE	4865 (-2078)	+5
HERTHA POROSITY	4928 (-2141)	-3
MARMATON	5012 (-2225)	+6
CHEROKEE SH	5196 (-2409)	+6
ATOKA	5391 (-2604)	-1
MORROW	5506 (-2719)	-1
CHESTER	5549 (-2762)	+5
ST GEN	5751 (-2964)	-10
ST LOUIS	5827 (-3040)	-1
1ST POROSITY	5904 (-3117)	-5
RTD	5986	
LTD	5986	

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FROM CONFIDENTIAL

# ALLIED CEMENTING CO., INC. - 0891

## CONFIDENTIAL

## ORIGINAL

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

SERVICE POINT:  
med. Lodge, ks.

DATE <u>2-26-94</u>	SEC. <u>2</u>	TWP. <u>32S</u>	RANGE <u>31W</u>	CALLED OUT <u>5:30 A.M.</u>	ON LOCATION <u>10:00 A.M.</u>	JOB START <u>12:30 P.M.</u>	JOB FINISH <u>2:30 P.M.</u>
LEASER <u>Abghofer</u>	WELL# <u>2</u>	LOCATION <u>160454 Jet. SW-1N-1/2E-0/1 into</u>			COUNTY <u>Seward</u>	STATE <u>Ks.</u>	

OLD OR NEW (Circle one)

CONTRACTOR Murfin Drlg Co OWNER Murfin Drlg Co  
TYPE OF JOB Surface CEMENT

HOLE SIZE 12 1/4 T.D. 16.50  
CASING SIZE 12 1/4 DEPTH 16.35  
TUBING SIZE DEPTH  
DRILL PIPE 1 1/2 x 16.60 DEPTH 16.50  
TOOL DEPTH  
PRES. MAX 1000 MINIMUM 300  
MEAS. LINE SHOE JOINT 40.12  
CEMENT LEFT IN CSG.  
PERFS.

AMOUNT ORDERED 5525.35 @ 6.35/CM<sup>2</sup>  
1/4" cello-flake per sq.  
250 CLASS A + 3% CaCl<sub>2</sub>  
Used 1500 LBS CLASS A + 3% CaCl<sub>2</sub>  
COMMON 150 @ 2.20 1080.00  
POZMIX @  
GEL @  
CHLORIDE 23 @ 28.00 644.00  
CEMENTATE 550 @ 6.65 3657.50  
FLO-SEAL 138# @ 1.15 158.70  
HANDLING 770 @ 1.05 735.00  
MILEAGE 700 x 40 .04 28.00  
TOTAL \$ 7395.20

### EQUIPMENT

PUMP TRUCK CEMENTER Arny Dreiling  
#255-234 HELPER Justin Hart  
BULK TRUCK  
#257- DRIVER MAX Ball  
BULK TRUCK  
#259- DRIVER John Kelley

### REMARKS:

### SERVICE

6.5' 35' 16% Gel  
+ 3% CaCl<sub>2</sub> + 1/4" Flo-Seal, Followed  
with 1500 LBS. CLASS A + 3% CaCl<sub>2</sub>  
Stop Pumps, Release Plug, Displace  
Plug to 15.95.72, Bump Plug, Release  
PSF Float Did Hold. Cemented  
Area

DEPTH OF JOB 16.35  
PUMP TRUCK CHARGE 1030.00  
EXTRA FOOTAGE @  
MILEAGE 20 @ 2.35 47.00  
PLUG 85/8" TRP @ 90.00 90.00  
TOTAL \$ 1167.00

CHARGE TO: Murfin Drlg. Co  
STREET 250 N WATER Suite 300  
CITY WICHITA STATE Ks ZIP 67202

### FLOAT EQUIPMENT

85/8" BAKER  
Reg Guide Shoe @ 224.00 224.00  
2 Centerlizers @ 61.00 122.00  
Basket @ 180.00 180.00  
A Flt Insert @ 258.00 258.00  
BAKER-LOK @ 30.00 30.00  
TOTAL \$ 814.00

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 Bill Wey

TAX \_\_\_\_\_  
TOTAL CHARGE \$ 9376.20  
DISCOUNT \$ 1875.24 IF PAID IN 30 DAYS

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REGISTRATION DIVISION  
WICHITA, KANSAS

# ALLIED CEMENTING CO., INC.

0161

## CONFIDENTIAL

SERVICE POINT:

Oakley

31  
L, KANSAS 67665

# ORIGINAL

8-95	SEC. 2	TWP. 32	RANGE 31	CALLED OUT	ON LOCATION 5:30 AM	JOB START 6:00 AM	JOB FINISH 8:00 AM
WELL# <u>1-2</u>				LOCATION <u>Plains 4U-1N-16E-1A1</u>		COUNTY <u>Seward</u>	STATE <u>Kan</u>

OLD OR NEW (Circle one)

CONTRACTOR Mur Fin Drlg Co #21

TYPE OF JOB Cement

HOLE SIZE \_\_\_\_\_ T.D. \_\_\_\_\_

CASING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_

TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_

DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_

TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_

PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_

MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_

CEMENT LEFT IN CSG. \_\_\_\_\_

PERFS. \_\_\_\_\_

OWNER Mur Fin Drlg Co

CEMENT

AMOUNT ORDERED 135 ~~sk~~ @ 6.50 = 882.50

COMMON	81	SKs	@	7.20	583.20
POZMIX	54	SKs	@	3.15	170.10
GEL	7	SKs	@	9.50	66.50
CHLORIDE			@		

### EQUIPMENT

PUMP TRUCK CEMENTER Walt

# 191 HELPER Wayne

BULK TRUCK DRIVER Terry

# 218

BULK TRUCK DRIVER \_\_\_\_\_

# \_\_\_\_\_

HANDLING 135 SKs @ 1.05 = 141.75

MILEAGE 49 ~~per~~ 1 mile @ 4.00 = 196.00

40 miles

TOTAL 4,177.55

### REMARKS:

### SERVICE

50	SKs	∅ 1670'
50	SKs	∅ 550'
10	SKs	∅ 40'
15	SKs	in R.H.
10	SKs	in M.H.

Sub 40m

DEPTH OF JOB	<u>1670'</u>	
PUMP TRUCK CHARGE		445.00
EXTRA FOOTAGE	@	
MILEAGE	20 mile @ 2.35	47.00
PLUG	8 1/2" D.H. Plug @	23.00

TOTAL 515.00

CHARGE TO: Mur Fin Drlg Co

STREET 250 N Water, ST. # 300

CITY Wichita STATE Kan ZIP 67202

### FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	

TOTAL \_\_\_\_\_

TAX \_\_\_\_\_

TOTAL CHARGE \_\_\_\_\_

DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS

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 Bill Udy

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APR 9 1996

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CONSERVATION DIVISION  
WICHITA, KANSAS