

CONFIDENTIAL

SIDE ONE

2-32s-31W

COPY

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 S10W Temp. Abd.

Gas ENHR S1GW

Dry Other (Core, MSW, 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 PBT

Commingled Docket No. _____

Dual Completion Docket No. _____

Other (SWD or Inj?) Docket No. _____

12/28/94 1/17/95

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

API NO. 15- 175-21415
County Seward
SE NE SW Sec. 2 Twp. 32S Rge. 31W E

1650 Feet from S^N (circle one) Line of Section

2970 Feet from E^N (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 PBT _____

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/ _____ ex cat.

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

Chloride content 4500 ppm Fluid volume 2500 bbls

Dewatering method used evaporation

Location of fluid disposal if hauled offsite: _____

RELEASED

Operator Name _____

Lease Name APR 9 cons 1996

Quarter Sec. _____ Twp. _____ S Rng. _____ E/W

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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.

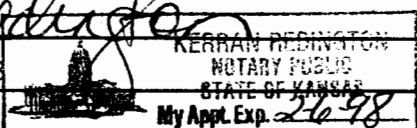
Signature By: Larry M. Jack

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

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

Notary Public Keyran Redington

Date Commission Expires 2/6/98



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

FEB 07 1995

W15 258-1

SIDE TWO

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 Datums 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

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		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 Yes No

Date of First, Resumed Production, SMD or Inj. Producing Method Flowing Pumping Gas Lift 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 Open Hole Perf. Dually Comp. Commingled Other (Specify)

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2-32s-31W
ORIGINAL

Supplemental to ACO-1

Murfin Drilling Co., Inc.

.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

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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

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.LANGHOFER #1-2
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COPY

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&GCWM (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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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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