

025-21092-0000

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-

County Clark

NW NW NW Sec. 22 Twp. 31S Rge. 21W E

4950 Feet from S/N (circle one) Line of Section

4950 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 Blau Well # 1-22

Field Name Unknown

Producing Formation _____

Elevation: Ground 2069 KB 2078

Total Depth 5260 PBTD _____

Amount of Surface Pipe Set and Cemented at 659 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 cmt.

Drilling Fluid Management Plan odd 2-18-93
(Data must be collected from the Reserve Pit)

Chloride content 5000 ppm Fluid volume 2500 bbls

Dewatering method used evaporation

Location of fluid disposal if hauled offsite: _____

Operator Name _____

Lease Name RELEASED.

Quarter Sec. Twp. S Rng. E/W

County _____ Docket No. _____

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: Ben Landes

Designate Type of Completion

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: _____

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. _____

1/21/93 1/30/93
Spud Date Date Reached TD Completion Date

CONFIDENTIAL

FROM CONFIDENTIAL

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 Larry M. Jack

Title Larry M. Jack, Prod. Mgr. Date 2/8/93

Subscribed and sworn to before me this 8 day of Feb. 19 93.

Notary Public Kerran Redington

Date Commission Expires 2/6/94

KERRAN REDINGTON
NOTARY PUBLIC
STATE OF KANSAS
My Appt. Exp. 2-6-94

K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Geologist Report Received
Distribution
 KCC SWD/Rep Other
 KGS Plug
RECEIVED
FEB 9 1993
KCPA
Other
KANSAS
Wichita

Operator Name Murfin Drilling Co., Inc. Lease Name Blau Well # 1-22
 Sec. 22 Twp. 31S Rge. 21W East West
 County Clark

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 (Attach Additional Sheets.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Heebner	4198 (-2120)	
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Brown lime	4381 (-2303)	
List All E.Logs Run:		LKC	4403 (-2325)	
DST attached.		BKC(5) 677	4850 (-2772)	
		Marmaton	4870 (-2792)	
		Cherokee	5008 (-2930)	
		Huck Lime	5102 (-3024)	
		Morrow Sh	5112 (-3034)	
		Morrow SD	5134 (-3056)	
		MISS	5158 (-3080)	

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	24	659	60/40 Poz	375	2%gel, 4%cc

ADDITIONAL CEMENTING/SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
Perforate	12 1/4			
Protect Casing				
Plug Back TD				
Plug Off Zone				

PERFORATION RECORD - Bridge Plugs Set/Type		Acid, Fracture, Shot, Cement Squeeze Record	
Shots Per Foot	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: Vented Sold Used on Lease (If vented, submit ACD-18.)

METHOD OF COMPLETION: Open Hole Perf. Dually Comp. Commingled Other (Specify) _____

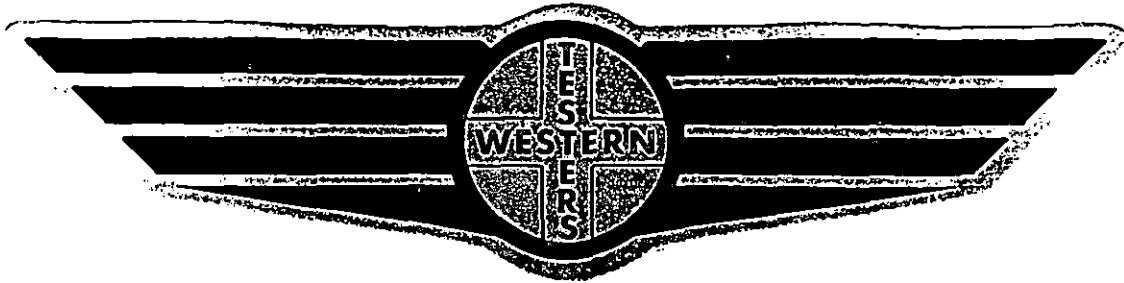
Production Interval _____

ORIGINAL

FORMATION TEST REPORT

RELEASED
MAR 1 1994
FROM CONFIDENTIAL

FEB 8
CONFIDENTIAL



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1 - 800-688-7021

COMPANY MURFIN DRILLING COMPANY LEASE & WELL NO. #1-22 MURFIN-BIAH SEC. 22 TWP. 31S. RGE. 21W TEST NO. 1 DATE 1/29/93

RECEIVED
DATE 1/29/93
FCR
CU

DST REPORT

032200 MORR

GENERAL INFORMATION

DATE : 1/29/93M
CUSTOMER : MURFIN DRILLING COMPANY
WELL : JATTM:30-2200 MORR TEST: 1
ELEVATION: 2078 KB FROM
SECTION : 22
RANGE : 21W COUNTY: CLARK
GAUGE SN#: 1051 RANGE : 4250
TICKET : 19371
LEASE : MURFIN-BLAU
GEOLOGIST: BEN LANDES
FORMATION: MORROW SAND
TOWNSHIP : 31S
STATE : KS
CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 5104.00 ft TO: 5161.00 ft TVD: 5161.0 ft
DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL
DEPTH OF RECORDERS: 5107.0 ft 5110.0 ft
TEMPERATURE: 122.0

DRILL COLLAR LENGTH: 573.0 ft I.D.: 2.250 in
WEIGHT PIPE LENGTH : 0.0 ft I.D.: 0.000 in
DRILL PIPE LENGTH : 4503.0 ft I.D.: 3.800 in
TEST TOOL LENGTH : 28.0 ft TOOL SIZE : 5.500 in
ANCHOR LENGTH : 57.0 ft ANCHOR SIZE: 5.500 in
SURFACE CHOKE SIZE : 0.750 in BOTTOM CHOKE SIZE: 0.750 in
MAIN HOLE SIZE : 7.875 in TOOL JOINT SIZE : 4.5XH
PACKER DEPTH: 5099.0 ft SIZE: 6.630 in
PACKER DEPTH: 5104.0 ft SIZE: 6.630 in
PACKER DEPTH: 5110.0 ft SIZE: 0.000 in
PACKER DEPTH: 0.0 ft SIZE: 0.000 in

MUD INFORMATION

DRILLING CON. : MURFIN DRLG RIG 21
MUD TYPE : CHEMICAL VISCOSITY : 43.00 cp
WEIGHT : 9.300 ppg WATER LOSS: 8.800 cc
CHLORIDES : 5000 ppm
JARS-MAKE : W.T.C. SERIAL NUMBER: 411
DID WELL FLOW?: NO REVERSED OUT?: NO

COMMENTS

Comment

INITIAL FLOW PERIOD STRONG BLOW, GAS TO SURFACE IN
15 MINUTES, TOO SMALL TO MEASURE. 5 MINUTES ON
FINAL FLOW PERIOD, 4450 MAX.

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FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
60.0	0.0	10.0	0.0	90.0	GAS CUT MUD
180.0	5.0	10.0	0.0	85.0	GAS & SLY OIL CUT MUD
120.0	20.0	10.0	10.0	60.0	GAS & OIL CUT MUD

RATE INFORMATION

OIL VOLUME:	0.1623 STB	TOTAL FLOW TIME:	90.0000 min.
GAS VOLUME:	0.9940 SCF	AVERAGE OIL RATE:	18.4110 STB/D
MUD VOLUME:	1.3720 STB	AVERAGE WATER RATE:	2.8325 STB/D
WATER VOLUME:	0.0590 STB		
TOTAL FLUID :	1.5933 STB		

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1493.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	215.00	215.00
INITIAL SHUT-IN	60.00		322.00
FINAL FLOW	60.00	247.00	247.00
FINAL SHUT-IN	90.00		322.00

FINAL HYDROSTATIC PRESSURE: 1440.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2517.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	229.00	229.00
INITIAL SHUT-IN	63.00		311.00
FINAL FLOW	60.00	244.00	244.00
FINAL SHUT-IN	90.00		315.00

FINAL HYDROSTATIC PRESSURE: 2493.00

RELEASED

MAY 1, 1994

FROM CONFIDENTIAL

RECEIVED
STATE CORPORATION COMMISSION

FEB 9 1993

CONSERVATION DIVISION
Wichita, Kansas

8 437

PRESSURE TRANSIENT REPORT

DATE 1/29/93

GENERAL INFORMATION

DATE : 1/29/93	TICKET : 19371
CUSTOMER : MURFIN DRILLING COMPANY	LEASE : MURFIN-BLAU
WELL : 1-22 TEST: 1	GEOLOGIST: BEN LANDES
ELEVATION: 2078 KB	FORMATION: MORROW SAND
SECTION : 22	TOWNSHIP : 31S
RANGE : 21W COUNTY: CLARK	STATE : KS
GAUGE SN#: 1051 RANGE : 4250	CLOCK : 12

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	229.00	229.00
5.00	229.00	0.00
10.00	229.00	0.00
15.00	229.00	0.00
20.00	229.00	0.00
25.00	229.00	0.00
30.00	229.00	0.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	233.00	233.00	0.00
6.00	237.00	4.00	0.00
9.00	242.00	5.00	0.00
12.00	246.00	4.00	0.00
15.00	252.00	6.00	0.00
18.00	255.00	3.00	0.00
21.00	259.00	4.00	0.00
24.00	264.00	5.00	0.00
27.00	266.00	2.00	0.00
30.00	268.00	2.00	0.00
33.00	273.00	5.00	0.00
36.00	278.00	5.00	0.00
39.00	283.00	5.00	0.00
42.00	287.00	4.00	0.00
45.00	290.00	3.00	0.00
48.00	294.00	4.00	0.00
51.00	298.00	4.00	0.00
54.00	302.00	4.00	0.00
57.00	305.00	3.00	0.00

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APR 1 1994

FROM CONFIDENTIAL

ORIGINAL

PRESSURE TRANSIENT REPORT (CONTINUED)

INITIAL SHUT IN (CONTINUED)

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
60.00	308.00	3.00	0.00
63.00	311.00	3.00	0.00

FINAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	244.00	244.00
5.00	244.00	0.00
10.00	244.00	0.00
15.00	244.00	0.00
20.00	244.00	0.00
25.00	244.00	0.00
30.00	244.00	0.00
35.00	244.00	0.00
40.00	244.00	0.00
45.00	244.00	0.00
50.00	244.00	0.00
55.00	244.00	0.00
60.00	244.00	0.00

FINAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	252.00	252.00	0.00
6.00	258.00	6.00	0.00
9.00	265.00	7.00	0.00
12.00	270.00	5.00	0.00
15.00	272.00	2.00	0.00
18.00	274.00	2.00	0.00
21.00	276.00	2.00	0.00
24.00	278.00	2.00	0.00
27.00	280.00	2.00	0.00
30.00	282.00	2.00	0.00
33.00	284.00	2.00	0.00
36.00	286.00	2.00	0.00
39.00	288.00	2.00	0.00
42.00	290.00	2.00	0.00
45.00	292.00	2.00	0.00

RELEASED

MAR 1 1994

FROM CONFIDENTIAL

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STATE CORPORATION COMMISSION

FEB 9 1993

CONSERVATION DIVISION
Wichita, Kansas

FEB 8
CONFIDENTIAL

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL SHUT IN (CONTINUED)

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
48.00	294.00	2.00	0.00
51.00	296.00	2.00	0.00
54.00	298.00	2.00	0.00
57.00	300.00	2.00	0.00
60.00	302.00	2.00	0.00
63.00	304.00	2.00	0.00
66.00	306.00	2.00	0.00
69.00	308.00	2.00	0.00
72.00	309.00	1.00	0.00
75.00	310.00	1.00	0.00
78.00	311.00	1.00	0.00
81.00	312.00	1.00	0.00
84.00	313.00	1.00	0.00
87.00	314.00	1.00	0.00
90.00	315.00	1.00	0.00

RELEASED

MAR 1 1996

FROM CONFIDENTIAL

8 857

CONFIDENTIAL

ALLIED CEMENTING CO., INC.

Home Office P. O. Box 31

Russell, Kansas 67665

2929

New

ORIGINAL

Date	1-22-93	Sec.	22	Twp.	31S	Range	21W	Called Out	6:00A.M.	On Location	10:00A.M.	Job Start	2:40P.M.	Finish	3:35P.M.
Lease	BLAD	Well No.	1-22	Location	Protection, Ks., 60-60-30			County	CLARK	State	KANSAS				

Contractor	murfin Drlg.	
Type Job	SURFACE CASING	
Hole Size	12 1/4	T.D. 660'
Csg.	8 5/8 x 24#	Depth 647.38
Tbg. Size		Depth
Drill Pipe	4 1/2 X-Hole	Depth 660'
Tool		Depth
Cement Left in Csg.		Shoe Joint 34.73
Press Max.	500	Minimum 250
Meas Line		Displace 39 BBIS
Perf.		FEB 8

Owner murfin Drlg.
 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.

Charge To murfin Drlg. Co.
 Street 250 N. Water Suite 300
 City Wichita State Ks. 67202

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

Purchase Order No. *Bill Weger*
 X **CEMENT**

EQUIPMENT

CONFIDENTIAL

No.	Cementer	Larry Dreiling
Pumptrk 255	Helper	Carl Balding
No.	Cementer	
Pumptrk	Helper	
	Driver	Mark Bronsdant
Bulktrk 256	Driver	

Amount Ordered	375SKS. 60:40: 4%CC-2%Gel		
Consisting of			
Common	225	5.50	1237.50
Poz. Mix	150	2.50	375.00
Gel.	8	6.75	NIC
Chloride	15	21.00	315.00
Quickset			
FROM CONFIDENTIAL			
Handling	375	1.00	375.00
Mileage	65		975.00
Total #	4195.83		
Disc-	839.17		
Total	3356.66		3277.50

DEPTH of Job	657.38	
Reference:	Pump Truck	380.00
	8 5/8 Top Rubber Plug	63.00
	347' at 39#	135.33
	65 Mileage	130.00
	Total	708.33

Handling	375	1.00	375.00
Mileage	65		975.00
Total #	4195.83		
Disc-	839.17		
Total	3356.66		3277.50

Remarks: Rig up to Cement Pump. Mix And Pump 375SKS. 60:40: 4%CC-2%Gel. Stop Pumps, Release 100g. Displace w/ Fresh H₂O. Pump Plug. Cement Did Circ. 2 BBIS In Celler

Floating Equipment			
1- 8 5/8 Threaded Baffle Plate (w)	30.00		
1- 8 5/8 Basket (B)		180.00	
		210.00	

NO WARRANTY ON FLOAT EQUIPMENT

RECEIVED
 STATE COMMISSION
 FEB 9 1993
 THANK YOU AND DON DIVISION
 Wichita, Kansas

FINAL DISP. PRESS: 650 PSI BUMP PLUG TO 500 PSI BLEEDBACK _____ BBLs.

ALLIED CEMENTING CO., INC.

2932

Home Office P. O. Box 31

Russell, Kansas 67665

(New well)

Date	Sec.	Twp.	Range	Called Out	On Location	Job Start	Finish
1-31-93	22	31s	21w	4:00A.M.	7:00A.M.	10:25A.M.	12:45P.M.
Lease <u>Blau</u>	Well No. <u>1-22</u>	Location <u>Protection, ks. 6N-6W-3E</u>			County <u>Clark</u>	State <u>Kansas</u>	

Contractor <u>Murfin Drlg.</u>	Owner <u>Murfin Drlg.</u>
Type Job <u>Rotary Plug</u>	To Allied Cementing Co., Inc. You are hereby requested to rent cementing equipment and furnish cement and helper to assist owner or contractor to do work as listed.
Hole Size <u>7 7/8</u>	T.D. <u>5260'</u>
Csg.	Depth
Tbg. Size	Depth
Drill Pipe <u>4 1/2-X-Hole</u>	Depth <u>1150'</u>
Tool	Depth
Cement Left in Csg.	Shoe Joint
Press Max. <u>300</u>	Minimum <u>650</u>
Meas Line	Displace <u>14 BBS mod</u>
Perf.	

Charge To <u>Murfin Drlg. Company</u>
Street <u>250 N. Water Suite 300</u>
City <u>Wichita</u> State <u>Ks. 67202</u>
The above was done to satisfaction and supervision of owner agent or contractor.
Purchase Order No. <u>McKinney</u>
CEMENT

EQUIPMENT

No.	Cementer	Helper
Pumptrk <u>255</u>	<u>Larry Drilling</u>	<u>Carl Balding</u>
Pumptrk		
Bulktrk <u>265</u>	<u>Mark Brondant</u>	
Bulktrk		

Amount Ordered <u>135 sks. 60' 40' 6% Gel.</u>
Consisting of
Common <u>81</u> <u>5.50</u> <u>445.5</u>
Poz. Mix <u>54</u> <u>2.50</u> <u>135.00</u>
Gel. <u>8</u> <u>6.75</u> <u>54.00</u>
Chlofide
Quickset
Handling <u>135</u> <u>1.00</u> <u>135.00</u>
Mileage <u>65</u> <u>351.00</u>
Total <u>1120.5</u>

DEPTH of Job <u>1150'</u>
Reference:
<u>Pump Truck</u> <u>380.00</u>
<u>8 5/8 Dry Hole Plug</u> <u>20.00</u>
<u>65 Mileage</u> <u>130.00</u>
Sub-Total
Total <u>530.00</u>

Remarks:
1150' w/ 50 sks.
780' w/ 50 sks.
40' w/ 10 sks.
Rathole w/ 15 sks.
mouse hole w/ 10 sks.
Cemented w/ 135 sks. 60' 40' 6% Gel

Floating Equipment

Total \$ 1650.50

RELEASED Disc 330.10

MAR 1 1994 \$ 1320.40

FROM CONFIDENTIAL

RECEIVED
STATE PATROL & THIEF COMMISSION

FEB 9 1993
THANK YOU