

ORIGINAL

SIDE ONE

CONFIDENTIAL

RELEASED

FEB 06 1992

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

Operator: License # 6033

Name: Murfin Drilling Company

Address 250 North Water, Suite 300

Wichita, Ks. 67202

City/State/Zip _____

Purchaser: none

Operator Contact Person: Larry Jack

Phone (316) 267-3241

Contractor: Name: Brandt Drilling Co.

License: 5840

Wellsite Geologist: Chuck Schmaltz

Designate Type of Completion

New Well Re-Entry Workover

Oil SWD Temp. Abd.

Gas Inj Delayed Comp.

Dry Other (Core, Water Supply, etc.)

If CWO: old well info as follows:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Drilling Method:

Mud Rotary Air Rotary Cable

10-29-90 11-08-90 12/27/90

Spud Date Date Reached TD Completion Date

API NO. 15- 097-21,301-0000

County Kiowa **FROM CONFIDENTIAL**

150' N of C Sec. 33 Twp. 29S Rge. 18 East West

2790 Ft. North from Southeast Corner of Section

2640 Ft. West from Southeast Corner of Section

(NOTE: Locate well in section plat below.)

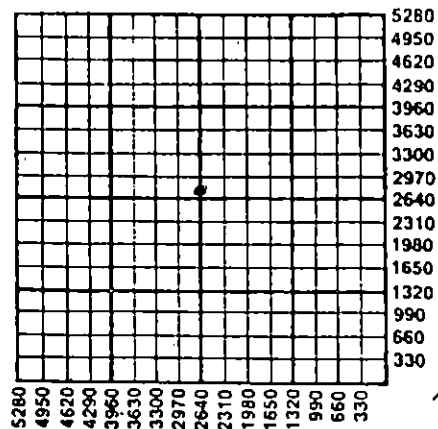
Lease Name BROWN ALLEN Well # 1

Field Name Nichols

Producing Formation MISS

Elevation: Ground 2144 KB 2151

Total Depth 4890 PBD 4912



Amount of Surface Pipe Set and Cemented at 371' 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.

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 By: Larry M. Jack
Title Larry M. Jack, Prod. Mgr. Date 1/3/91

Subscribed and sworn to before me this 3 day of Jan., 19 91.

Notary Public Kerran Redington

Date Commission Expires 2/6/94



K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Drillers Time Log Received
STATE CORPORATION COMMISSION
Distribution
 KCC SWD/Rep NGPA
 KGS Plug Other
(Specify)
RCO 1-4-91

CONFIDENTIAL

SIDE TWO

Operator Name Murfin Drilling Company Lease Name BROWN ALLEN Well # 1

Sec. 33 Twp. 29S Rge. 18 East West
County Kiowa

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 Supplemental Attachement to ACO-1

Formation Description

Log Sample

Name	Top	Bottom
See Supplemental Attachment to ACO-1		

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#	371'	60/40 poz	195	2% gel, 3% cc
Prod	7 7/8	5 1/2"	15.5#	4882'	Class A	175	10% salt, 3/4% Halaaid 322, 5#/sx Gilsonite

Shots Per Foot	PERFORATION RECORD	Acid, Fracture, Shot, Cement Squeeze Record
	Specify Footage of Each Interval Perforated	(Amount and Kind of Material Used) Depth
	Open Hole 4882-4940'	14,700 gal. Nitrogen Foam Frac 4882-4940'

TUBING RECORD

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

Date of First Production _____ 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: Vented Sold Used on Lease (If vented, submit ACO-18.)

METHOD OF COMPLETION: Open Hole Perforation Dually Completed Commingled Other (Specify) _____

Production Interval: 4882-4940'

ORIGINAL

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CONFIDENTIAL
FEB 6 1992

FROM CONFIDENTIAL

SUPPLEMENTAL ATTACHEMENT TO ACO-1

Operator: Murfin Drilling Company
250 N. Water, Suite 300
Wichita, Ks. 67202
316-267-3241

Well: BROWN ALLEN #1
250' N of C Sec. 33-29S-18W
2790' fSL 2640' fEL
Kiowa County, Ks.
API#: 15-097-21,301

DST Information:

DST #1: 4269-4283 (Lansing A zone)
30-45-60-90
IF: strong blow immediately
FF: strong blow immediately, GTS in 30 min.
40 min gauged 56,000 cf
50 min gauged 82,000 cf
60 min gauged 82,000 cf
REC: 60' GCM
HP: 2135-2135, SIP: 719-1228, FP: 58-58/81-127 (plugging on 2nd flow period)
BHT: 130°

DST #2: 4284-4313 (Lansing B zone)
30-45-45-45
REC: 310' GIP
1500' SW
HP: 2135-2112, SIP: 1475-1475, FP: 231-371/487-684
BHT: 122°

LOG TOPS:

COTTONWOOD	2971 (- 820)
EMPORIA	3494 (-1341)
HEEBNER SHALE	4074 (-1923)
TORONTO	4091 (-1940)
BROWN LS	4247 (-2096)
LANSING	4261 (-2110)
BKC	4670 (-2519)
MARMATON	4736 (-2585)
CHEROKEE SHALE	4806 (-2655)
MISS CHERT	4878/4881* (-2730)
TOTAL DEPTH	4887

* Only Neutron log was deep enough to catch possible top of clean Mississippian Chert. Bottom Hole Gamma Ray was unsuccessful.

RECEIVED
STATE GEOLOGICAL COMMISSION

JAN 4 1991

CONSERVATION DIVISION
Wichita, Kansas

483-2627, Russell, Kansas
316-793-5861, Great Bend, Kansas

ORIGINAL

CONFIDENTIAL

Phone Plainville 913-434-2812
Phone Ness City 913-798-3843

FEB 06 1992

ALLIED CEMENTING CO., INC.

Home Office P. O. Box 31

Russell, Kansas 67665

FROM NO. CONFIDENTIAL

New

Date	10-29-90	Sec.	33	Twp.	29	Range	18	Called Out	5 ⁰⁰ pm	On Location	5 ³⁰ pm	Job Start	7 ⁰⁵ pm	Finish	11 ³⁰ pm
Lease	Brown Alan	Well No.	#1	Location	Mansburg 7516 3/4 S Elide	County	Kiowa	State	KS						
Contractor	Brandt Drilling Rig #2					Owner	Some								
Type Job	SURFACE					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.	372 ft											
Csg.	24"		8 1/2	Depth	376 ft										
Tbg. Size			Depth												
Drill Pipe			Depth												
Tool			Depth												
Cement Left in Csg.			Shoe Joint												
Press Max.			Minimum												
Meas. Line	✓ 357 ft		Displace	22.7 bbl											
Perf.															

EQUIPMENT

<i>Brandt</i> Pumptrk	No.	Cementer	Miky
	120	Helper	
Pumptrk	No.	Cementer	
		Helper	
Bulktrk	101	Driver	Duane
		Driver	

DEPTH of Job	376 ft	
Reference:	Pump Truck charge	380.00
<i>Rate #</i> 39	mileage charge	78.00
1	wooden plug	42.00
	76' at 39	NIC
	Total	500.00

Remarks: Cement did circulate

*Thank you
Mike*

Allied Cementing Co. Inc. By Mike Marsch
Mike Marsch

Charge To *Murfin Drilling Company*
Street *250 N. Water Suite 300*
City *Wichita* State *Ko 67202*
The above was done to satisfaction and supervision of owner agent or contractor

Purchase Order No. *X MF Saeman*
CEMENT

Amount Ordered	195 1/4 2-3	
Consisting of		
Common	117	5.25 614.25
Poz. Mix	78	2.25 175.50
Gel.	4	6.75 NIC
Chloride	6	21.00 126.00
Quickset		

Handling	195	1.00	195.00
Mileage	54		315.90
md. ldy			
Sub Total			
Total			1426.6

Floating Equipment

Total # 1926.65
Disc - 385.33

RECEIVED \$ 1541.32
STATE COMMERCE COMMISSION

FEB 4 1991

DISTRICT PRATT KS ORIGINAL DATE 2/16/92

TO: HALLIBURTON SERVICES YOU ARE HEREBY REQUESTED TO FURNISH EQUIPMENT AND SERVICEMEN TO DELIVER AND OPERATE THE SAME AS AN INDEPENDENT CONTRACTOR TO: MURFIN DRILLING CO (CUSTOMER) AND DELIVER AND SELL PRODUCTS, SUPPLIES, AND MATERIALS FOR THE PURPOSE OF SERVICING

WELL NO. 1 LEASE BROWN ALLEN SEC. 33 TWP. 29 RANGE 18

FIELD COUNTY Kiowa STATE KS OWNED BY

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT

Table with columns: FORMATION NAME, TYPE, NEW USED, WEIGHT, SIZE, FROM, TO, MAX ALLOW. P.S.I. Rows include CASING, LINER, TUBING, OPEN HOLE, PERFORATIONS.

PREVIOUS TREATMENT: DATE TYPE MATERIALS

TREATMENT INSTRUCTIONS: TREAT THRU TUBING ANNULUS CASING TUBING/ANNULUS HYDRAULIC HORSEPOWER ORDERED Cement 5 1/2 Production casing with 175 SKT STANDARD WITH 109 SALT. 758 HALAD-322 S G. 2 SEGMENT

CUSTOMER OR HIS AGENT WARRANTS THE WELL IS IN PROPER CONDITION TO RECEIVE THE PRODUCTS, SUPPLIES, MATERIALS, AND SERVICES

As consideration, the above-named Customer agrees: THIS CONTRACT MUST BE SIGNED BEFORE WORK IS COMMENCED. a) To pay Halliburton in accord with the rates and terms stated in Halliburton's current price list. b) To defend, indemnify, release and hold harmless Halliburton, its divisions, subsidiaries, parent and affiliated companies... c) That because of the uncertainty of variable well conditions... d) That Halliburton warrants only title to the products, supplies and materials... e) That Customer shall, at its risk and expense, attempt to recover any Halliburton equipment... f) To waive the provisions of the Deceptive Trade Practices - Consumer Protection Act... g) That this contract shall be governed by the law of the state where services are performed... h) That Halliburton shall not be bound by any changes or modifications in this contract...

I HAVE READ AND UNDERSTAND THIS CONTRACT AND REPRESENT THAT I AM AUTHORIZED TO SIGN THE SAME AS CUSTOMER'S AGENT. SIGNED DATE TIME

FIELD: ORIGINAL 33 TWP. 29S RNG. 18W COUNTY: Kiowa STATE: KS

FORMATION NAME: _____ TYPE: _____

FORMATION THICKNESS: FROM _____ TO _____

INITIAL PROD. OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD

PRESENT PROD. OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD

COMPLETION DATE: _____ MUD TYPE: _____ MUD WT. _____

PACKER TYPE: _____ SET AT _____

BOTTOM HOLE TEMP. _____ PRESSURE _____

MISC. DATA: _____ TOTAL DEPTH: 4887

JOB DATA

CALLER OUT DATE: 11-8-90 TIME: 1700	ON LOCATION DATE: 11-8-90 TIME: 2200	JOB STARTED DATE: 11-9-90 TIME: 0545	JOB COMPLETED DATE: 11-9-90 TIME: 063
---	--	--	---

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS 6"4 5/2	8	MALCO
BOTTOM PLUG		
TOP PLUG 1/2" 15/16	1	" "
HEAD		
PACKER SHOE 5/11	1	MALCO
OTHER		

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
J. WOODROW	62573	PRIT KS
J. ARFOLD	56466	" "
J. SHEERS	67184	GT-BEIR KS

MATERIALS

TREAT. FLUID _____ DENSITY _____ LB/GAL API

DISPL. FLUID _____ DENSITY _____ LB/GAL API

PROP. TYPE _____ SIZE _____ LB.

ACID TYPE _____ GAL _____ %

SURFACTANT TYPE _____ GAL _____ IN.

NE AGENT TYPE _____ GAL _____ IN.

FLUID LOSS ADD. TYPE _____ GAL-LB _____ IN.

GELLING AGENT TYPE _____ GAL-LB _____ IN.

FRIC. RED. AGENT TYPE _____ GAL-LB _____ IN.

BREAKER TYPE _____ GAL-LB _____ IN.

BLOCKING AGENT TYPE _____ GAL-LB _____

PERFPAC BALLS TYPE _____ QTY. _____

OTHER _____

DEPARTMENT: CEMENT

DESCRIPTION OF JOB: CEMENT 51- PRODUCTION CSC

JOB DONE THRU: TUBING CASING ANNULUS TBG/ANN.

CUSTOMER REPRESENTATIVE: X [Signature]

HALLIBURTON OPERATOR: [Signature]

COPIES REQUESTED: _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	175	STANDARD	MALCO	B	10% SALT, .75% MALCO-322 5' GLENITE	1.30	14.8

PRESSURES IN PSI

SUMMARY

CIRCULATING _____ DISPLACEMENT _____

BREAKDOWN _____ MAXIMUM _____

AVERAGE _____ FRACTURE GRADIENT _____

SHUT-IN: INSTANT _____ 5-MIN. _____ 15-MIN. _____

HYDRAULIC HORSEPOWER _____

ORDERED _____ AVAILABLE _____ USED _____

AVERAGE RATES IN BPM _____

TREATING _____ DISPL _____ OVERALL _____

CEMENT LEFT IN PIPE _____

FEET: 34' REASON: LATCH DOWN GAFFER

ADDITIONAL VOLUMES: 40 BLS

PRESLUSH: BBL-GAL. 12 BLS

LOAD & BKDN: BBL-GAL. _____

TREATMENT: BBL-GAL. _____

CEMENT SLURRY: BBL-GAL. 40.5 BLS

TOTAL VOLUME: BBL-GAL. _____

REMARKS: _____

CUSTOMER: PMA # 45 CONTINENTAL, WELL NO. 51, DATE: 11-9-90

JOB LOG

ORIGINAL

 WELL NO. 1 LEASE CONSERVATION TICKET NO. 111792

 CUSTOMER MURFIN DALE GO PAGE NO. 1

FORM 2013 R-2

 JOB TYPE 5/2 LANE STRINGS DATE 11 2 90 RELEASED

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				J	C	TUBING	CASING	
	2200							JOB READY
	1200							FROM CONFIDENTIAL CALLED OUT FOR JOB
	2200							PUMP TRUCK, RIG TRUCK ON LOCITE. RIG LAYING DOWN DRILL PIPE SET UP PUMP TRUCK
	1130							OUT OF HOLE WITH D-P BREAK HOLEY DO CLEAN WORK
	0100							START RUNNING 5/4 CSC 1 FT EQUIP CASING ON BOTTOM
	0430							HOOK UP SNAPE & CIRCULATING TRON
	0445							BREAK CIRCULATION WITH RIG PUMP TAG BOTTOM OF HOLE
	0510							PICK UP OFF BOTTOM 6' IT ISHUT DOWN
	0525							DROP SEATING BALL
	0545							1900' SET PACKER SLIDE
	0550	5	10					SHUT DOWN. UPK UP TO PUMP TRUCK
		5	3					250' PUMP IN BALL SET FLOW
		5	12					PUMP 2 BALLS FREE WITH SPACER
		5	3					PUMP 10 BALLS FREE WITH SPACER
	0600	8						4' PUMP 20 BALLS FREE WITH SPACER
			40					THROUGH MIXING CMT
								SHUT DOWN
								WASH OUT PUMP & LINES
		8						RELEASE PLUG
								START REPLENISH
	0630							1900' PLUG DOWN
								RETURN BACK

STATE OF OKLAHOMA

AM 2, 1991

ORIGINAL

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FORM 1906 R-11

WELL NO. - FARM OR LEASE NAME: 1 - BROWN ALLEN COUNTY: KLONA STATE: KS CITY/OFFSHORE LOCATION: DATE: 11-8-90

CHARGE TO: MORFIN DRILLING CO OWNER: FROM CONFIDENTIAL TICKET TYPE (CHECK ONE): SERVICE SALES NITROGEN JOB: YES NO

ADDRESS: BRANT DRUG CONTRACTOR: BRANT DRUG LOCATION: 1 P PAT KS CODE: 2555

CITY, STATE, ZIP: SHIPPED VIA: 5770/5060 FREIGHT CHARGES: PPD COLLECT LOCATION: 2 GT BRANT KS CODE: 25500

WELL TYPE: 21 - OIL WELL CATEGORY: 03 WIDGIT WELL PERMIT NO.: DELIVERED TO: LOCATION LOCATION: 3 CODE:

TYPE AND PURPOSE OF JOB: 5 1/2 LONG STRING ORDER NO.: REFERRAL LOCATION:

As consideration, the above-named Customer agrees to pay Halliburton in accord with the rates and terms stated in Halliburton's current price lists. 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. These terms and conditions shall be governed by the law of the state where services are performed or equipment or materials are furnished.

Halliburton warrants only title to the products, supplies and materials and that the same are free from defects in workmanship and materials. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Halliburton's liability and customer's exclusive remedy in any cause of action (whether in contract, tort, product liability, breach of warranty or otherwise) arising out of the sale or use of any products, supplies or materials is expressly limited to the replacement of such products, supplies or materials on their return to Halliburton or, at Halliburton's option, to the allowance to the customer of credit for the cost of such items. In no event shall Halliburton be liable for special, incidental, indirect, punitive or consequential damages.

PRICE REFERENCE	SECONDARY REF OR PART NO.	L D C	ACCOUNT	DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT
					QTY	MEAS	QTY	MEAS		
200-112		1		MILEAGE	46	M			2.35	108 10
201-016		1		PUMP CHARGE	4872	FT			1260.00	12 60 00
200-118		1		MILEAGE SURCHARGE	46	MI			.40	18 40
43-317		1		SUCKER FLUSH	300	GL	12	5/8 IN	5377.60	988 00
27-764		1		SALT	100	LBS			.10	10 00
40	907-73022	1		S-Y CENTRALIZER	8	IN	5/2	IN	44.00	352 00
80	255-138	1		PACKER SLICE	1	IN	5/8	IN	2400.00	24 00 00

THIS IS AN INVOICE

NOT

AS PER ATTACHED BULK MATERIAL DELIVERY TICKET NO. B-

RECEIVED

2635 25

IS JOB SATISFACTORILY COMPLETED? _____

IS OPERATION OF EQUIPMENT SATISFACTORY? _____

IS PERFORMANCE OF PERSONNEL SATISFACTORY? _____

CUSTOMER OR HIS AGENT (PLEASE PRINT): Tom R. Thomas Jr

CUSTOMER OR HIS AGENT (SIGNATURE): [Signature]

WE CERTIFY THAT THE FAIR LABOR STANDARDS ACT OF 1938, AS AMENDED HAS BEEN COMPLIED WITH IN THE PRODUCTION OF GOODS AND OR WITH RESPECT TO SERVICES FURNISHED UNDER THIS CONTRACT.

[Signature]
HALLIBURTON OPERATOR
Wichita, Kansas

HALLIBURTON APPROVAL

CUSTOMER

SUB TOTAL

APPLICABLE TAXES WILL BE ADDED ON INVOICE.