

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

Operator: License # 6039

Name: L. D. Drilling, Inc.

Address R.R. 1 Box 183 B

City/State/Zip Great Bend, KS. 67530

Purchaser: na

Operator Contact Person: L. D. Davis

Phone (316) 793-3051

Contractor: Name: L. D. Drilling, Inc.

License: 6039

Wellsite Geologist: Kim Shoemaker

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 PBTB

Commingled Docket No. _____

Dual Completion Docket No. _____

Other (SWD or Inj?) Docket No. _____

10-29-91 11-06-91
Spud Date Date Reached TD Completion Date

API NO. 15- 185-22,811-0000

County STAFFORD

SW SW NW Sec. 31 Twp. 21S Rge. 12 W W

2310 Feet from S (circle one) Line of Section

330 Feet from E (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
NE, SE, NW or SW (circle one)

Lease Name FRANK Well # 2

Field Name Gates

Producing Formation na

Elevation: Ground 1873' GR KB 1878'

Total Depth 3701' PBTB _____

Amount of Surface Pipe Set and Cemented at 331' 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 ATL DTA
(Data must be collected from the Reserve Pit)

Chloride content _____ ppm Fluid volume _____ bbls

Dewatering method used water was skimmed off reserve pits when well above Hutch salt section was drld.

Location of fluid disposal if hauled offsite:

Teichman SWD Oper. 30610

Operator Name Bob's Oil Service

Lease Name Teichman License No. 30610

Quarter Sec. Twp. S Rng. E/W

County Stafford 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.

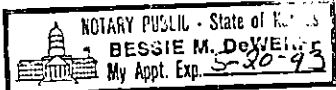
Signature L. D. Davis

Title President Date 12-16-91

Subscribed and sworn to before me this 16th day of December, 19 91.

Notary Public Bessie M. DeWerff STATE CORPORATION COMMISSION

Bessie M. DeWerff
Date Commission Expires 5-20-93



12-20-91

K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Geologist Report Received
RECEIVED
Distribution
KCC/Commissioner SWD/Rep NGPA
KGS Plug Other (Specify)
DEC 20 1991

Operator Name L. D. Drilling, Inc. Lease Name Frank Well # 2

Sec. 31 Twp. 21 Rge. 12 East county Stafford 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 (Attach Additional Sheets.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input checked="" 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	Anhy.	683 695	(+1195)
Electric Log Run (Submit Copy.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Heebner	3162	(-1284)
List All E.Logs Run:		Toronto	3182	(-1304)
See Attachment		Douglas	3197	(-1319)
		Brn. Lime	3294	(-1461)
		L K/C	3308	(-1430)
		Base K/C	3525	(-1647)
		Simpson Shale	3592	(-1714)
		Arbuckle	3640	(-1762)
		RTD	3701	(-1823)

CASING RECORD <input type="checkbox"/> New <input checked="" 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#	331'	60/40 Poz	200	2% Gel, 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 Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (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 In.]	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 ACO-18.)

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

Production Interval: _____

ORIGINAL

Attachment to ACO-1

LEASE: FRANK #2
SW SW NW
Sec. 31-T21S-R12W
Stafford County, KS.

OPERATOR: L. D. Drilling, Inc.

DST #1 3315-3385 KC (A-F)
Times: 30-30-30-30
Blow: 1/2" blow :1st opening
surface blow :2nd opening
Recovery: 15' Mud W/few oil specks
IFP: 32-32 FFP: 35-35
ISIP: 54 FSIP: 54

DST #2 3343-3525 KC (I-L)
Times: 30-30-30-30
Blow: 2" blow: 1st opening
1" blow: 2nd opening
Recovery: 60' Drilling Mud
IFP: 24-27 FFP: 32-32
ISIP: 746 FSIP: 705

DST #3 3571-3647 Arbuckle
Times: 45-45-45-45
Blow: 1" blow: 1st open
2" blow: 2nd open
Recovery: 45' gip, 15' osm
IFP: 124-127 FFP: 127-127
ISIP: 171 FSIP: 132

DST #4 3643-3653 Arbuckle
Times: 45-45-45-45
Blow: 1" blow blt to 4" - 1st open
4" blow - 2nd open
Recovery: 165' GIP, 15' HOcm
IFP: 30-30 FFP: 38-38
ISIP:86 FSIP: 92

DST #6 3665-3685 Arbuckle
Times: 20-20
Blow: weak surface blow

Recovery: 15' socm
IFP: 30-30
ISIP: 425

DST #7 3681-3701 Arbuckle
Times: 30-30-30
Blow: 1/2" 1st open
1/2" 2nd open
Recovery: 60' OSM
IFP: 70-72 FFP: 80-80
ISIP: 110 FSIP: 1050

RECEIVED
STATE CORPORATION COMMISSION

DEC 20 1991

ORIGINAL

ALLIED CEMENTING CO., INC.

NR 3347

Home Office P. O. Box 31

Russell, Kansas 67665

Date	11-5-91	Sec.	31	Twp.	21	Range	12	Called Out	9:30 am	On Location	11:00 am	Job Start	11:30 am	Finish	
Lease	FRANK	Well No.	2	Location	11 South 31 - 21 - 12 South			County	Stafford	State					
Contractor	L. D. Davis							Owner	Same						
Type Job	Delay plug							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	7 7/8	T.D.	3701												
Csg.		Depth													
Tbg. Size		Depth													
Drill Pipe		Depth													
Tool		Depth													
Cement Left in Csg.		Shoe Joint													
Press Max.		Minimum													
Meas Line		Displace													
Perf.															

EQUIPMENT

Pumptrk	No.	Cementor	Jack W.
	175	Helper	Don H
Pumptrk	No.	Cementor	
		Helper	
Bulktrk		Driver	Kent
	101		
Bulktrk		Driver	

DEPTH of Job

Reference:	Pumptruck	
	Mileage	
		Sub Total
		Tax
		Total

Remarks: 1st plug @ 3650 - 40 SX
 2nd plug @ 3725 - 50 SX
 3rd plug @ 375 - 50 SX
 4th plug @ 40' - 10 SX
 5th plug - 15 SX

Charge To: L. D. Davis

Street: _____

City: _____ State: _____

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

Purchase Order No. *X Taylor Clark*

CEMENT

Amount Ordered: 165 SY @ 90/40 = 96 yd

Consisting of

Common	
Poz. Mix	
Gel.	
Chloride	
Quickset	
Sales Tax	

Handling

Mileage

Sub Total

Total

Thanks

Floating Equipment

STATE CORPORATION COMMISSION

DEC 20 1991

RESERVATION DIVISION

BULK MATERIALS DELIVERY AND ORIGINAL TICKET CONTINUATION

FOR INVOICE AND
TICKET NO. 197252

10-29-91	CUSTOMER ORDER NO.	WELL NO. AND FARM Frank #2	COUNTY Stafford	STATE Ks.
CHARGE TO L. D. Drilling Incorporated		OWNER L.D. Drlg. Inc.	CONTRACTOR Co Tools	
MAILING ADDRESS		DELIVERED FROM Great Bend, Ks.	LOCATION CODE 25520	PREPARED BY S.C. Henry
CITY & STATE		DELIVERED TO Location	TRUCK NO. 3046-6608	RECEIVED BY <i>M. K. [Signature]</i>
No. B 978338				

PRICE REFERENCE	SECONDARY REF. OR PART NO.	CODE		DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT	
		L	D		QTY.	MEAS.	QTY.	MEAS.			
				200 40%pozmix/60%Cement							
504-308	516.00261	1	B	Standard Cement	120	sk			5.35	642.00	
506-105	516.00286	1	B	Pozmix A	80	sk			3.29	263.20	
506-121	516.00259	1	B	3 Halliburton Gel 2% allowed						NC	
509-406	890.50812	1	B	Calcium Chloride 3%W/200	5	sk			26.25	131.25	
THIS IS NOT AN INVOICE											
				Returned Mileage Charge							
				TOTAL WEIGHT			LOADED MILES	TON MILES			
				SERVICE CHARGE ON MATERIALS RETURNED				CU. FEET			
500-207		1	B	SERVICE CHARGE				CU. FEET 210	1.15	241.50	
500-306		1	B	Milage Charge	17.944		16	143.55	.80	114.84	
No. B 978338							CARRY FORWARD TO INVOICE		SUB-TOTAL		1392.79

CUSTOMER

TRICT Pratt DATE 10 29 91

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

WELL NO. 2 LEASE Frank SEC. _____ TWP. _____ RANGE _____
FIELD _____ COUNTY Sp. Co. STATE Ok. OWNED BY ...

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT

FORMATION NAME	TYPE	NEW USED	WEIGHT	SIZE	FROM	TO	MAX. ALLOW. P.S.I.
FORMATION THICKNESS	FROM _____ TO _____						
PACKER: TYPE	SET AT _____						
TOTAL DEPTH	MUD WEIGHT _____						
BORE HOLE							SHOTS/FT.
INITIAL PROD:	OIL _____ BPD, H ₂ O _____ BPD, GAS _____ MCF						
PRESENT PROD:	OIL _____ BPD, H ₂ O _____ BPD, GAS _____ MCF						

PREVIOUS TREATMENT: DATE _____ TYPE _____ MATERIALS _____
TREATMENT INSTRUCTIONS: TREAT THRU TUBING ANNULUS CASING TUBING/ANNULUS HYDRAULIC HORSEPOWER ORDERED _____

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. Invoices are 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 attorneys 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.
- b) To defend, indemnify, release and hold harmless Halliburton, its divisions, subsidiaries, parent and affiliated companies and the officers, directors, employees, agents and servants of all of them from and against any claims, liability, expenses, attorneys fees, and costs of defense to the extent permitted by law for:
 1. Damage to property owned by, in the possession of, or leased by Customer, and/or the well owner (if different from Customer), including, but not limited to, surface and subsurface damage. The term "well owner" shall include working and royalty interest owners.
 2. Reservoir, formation, or well loss or damage, subsurface trespass or any action in the nature thereof.
 3. Personal injury or death or property damage (including, but not limited to, damage to the reservoir, formation or well), or any damages whatsoever, growing out of or in any way connected with or resulting from pollution, subsurface pressure, losing control of the well and/or a well blowout or the use of radioactive material.

The defense, indemnity, release and hold harmless obligations of Customer provided for in this Section b) and Section c) below shall apply to claims or liability even if caused or contributed to by Halliburton's negligence, strict liability, or the unseaworthiness of any vessel owned, operated, or furnished by Halliburton or any defect in the data, products, supplies, materials, or equipment of Halliburton whether in the preparation, design, manufacture, distribution, or marketing thereof, or from a failure to warn any person of such defect. Such defense, indemnity, release and hold harmless obligations of Customer shall not apply where the claims or liability are caused by the gross negligence or willful misconduct of Halliburton. The term "Halliburton" as used in said Sections b) and c) shall mean Halliburton, its divisions, subsidiaries, parent and affiliated companies, and the officers, directors, employees, agents and servants of all of them.
- c) That because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, Halliburton is unable to guarantee the effectiveness of the products, supplies or materials, nor the results of any treatment or service, nor the accuracy of any chart interpretation, research analysis, job recommendation or other data furnished by Halliburton. Halliburton personnel will use their best efforts in gathering such information and their best judgment in interpreting it, but Customer agrees that Halliburton shall not be liable for and Customer shall indemnify Halliburton against any damages arising from the use of such information.
- d) That 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 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, 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.
- e) That Customer shall, at its risk and expense, attempt to recover any Halliburton equipment, tools or instruments which are lost in the well and if such equipment, tools or instruments are not recovered, Customer shall pay Halliburton its replacement cost unless such loss is due to the sole negligence of Halliburton. If Halliburton equipment, tools or instruments are damaged in the well, Customer shall pay Halliburton the lesser of its replacement cost or the cost of repairs unless such damage is caused by the sole negligence of Halliburton. In the case of equipment, tools or instruments for marine operations, Customer shall, in addition to the foregoing, be fully responsible for loss of or damage to any of Halliburton's equipment, tools or instruments which occurs at any time after delivery to Customer at the landing until returned to the landing, unless such loss or damage is caused by the sole negligence of Halliburton.
- f) To waive the provisions of the Deceptive Trade Practices - Consumer Protection Act, to the extent permitted by law.
- g) That this contract shall be governed by the law of the state where services are performed or materials are furnished.
- h) That Halliburton shall not be bound by any changes or modifications to this contract except where such change or modification is made in writing by a duly authorized executive officer of Halliburton.

STATE CORPORATION COMMISSION

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

DEC 20 1991

SIGNED RH [Signature] CUSTOMER
DATE 10-29-91
TIME 4:00 A.M./P.M.

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.
CUSTOMER

HALLIBURTON SERVICES

JOB SUMMARY

DIVISION _____
HALLIBURTON LOCATION _____

WELL NO. 197252
COUNTY W. Va.
STATE W. Va.

BILLED ON TICKET NO. 197252

WELL DATA

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 _____

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING			9 5/8	0	330	
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

JOB DATA

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS		
BOTTOM PLUG		
TOP PLUG	1	Hawco
HEAD		
PACKER		
OTHER		

CALLER OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>10 27</u>	DATE <u>10 29</u>	DATE <u>10 29</u>	DATE _____
TIME <u>7:30</u>	TIME <u>3:30</u>	TIME _____	TIME _____

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
Blessing 52160		
Kirchert 26444	3471	W+B
McDuff 24221		W+B

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. _____

DEPARTMENT Connell
 DESCRIPTION OF JOB Connell 9 5/8 Surface
 JOB DONE THRU: TUBING CASING ANNULUS TBG/ANN.
 CUSTOMER REPRESENTATIVE R.H. Reed
 HALLIBURTON OPERATOR W. H. Hays COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK	MIXED LBS./GAL.
	300	110/60		B	3% LL		

PRESSURES IN PSI

CIRCULATING _____ DISPLACEMENT _____
 BREAKDOWN _____ MAXIMUM _____
 AVERAGE _____ FRACTURE GRADIENT _____
 SHUT-IN: INSTANT _____ 5-MIN _____ 15-MIN _____
 ORDERED _____ AVAILABLE _____ USED _____
 TREATING _____ DISPL. _____ OVERALL _____
 FEET 10 REASON Reg. test

SUMMARY

VOLUMES

PRESLUSH: BBL-GAL 5 TYPE H2O
 LOAD & BKDN: BBL-GAL _____ PAD: BBL-GAL _____
 TREATMENT: BBL-GAL _____ DISPL: BBL-GAL 20.3
 CEMENT SLURRY: BBL-GAL 115.23
 TOTAL VOLUME: BBL-GAL 20.53
 REMARKS _____
 STATE _____
 DEC 20 1991

CUSTOMER L. O. Drilling
 LEASE Fork
 WELL NO. 197252
 JOB TYPE S. G.
 DATE 10 29 91

