

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

API NO. 15- 147-20590-00-00

County Phillips

C -N2 -N2 - N2 Sec. 23 Twp. 5S Rge 20W X W<sup>E</sup>

4980 Feet from S/N (circle one) Line of Section

2640 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 HANSEN C Well # 15

Field Name Hansen

Producing Formation Arbuckle

Elevation: Ground 2163 KB 2168

Total Depth 3655 PBTB 3604

Amount of Surface Pipe Set and Cemented at 262 Feet

Multiple Stage Cementing Collar Used? X Yes      No

If yes, show depth set 1677 Feet

If Alternate II completion, cement circulated from 1677

feet depth to surface w/ 250 sx cmt.

Drilling Fluid Management Plan AH 2, 3-7-00 CR.  
(Data must be collected from the Reserve Pit)

Chloride content      ppm Fluid volume 2500 bbls

Dewatering method used Evaporation

Location of fluid disposal if hauled offsite:     

Operator Name     

Lease Name      License No.     

     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 (316) 267-3241

Contractor: Name: Murfin Drilling Co., Inc.

License: 30606

Wellsite Geologist: Paul Gunzelner

Designate Type of completion  
X New Well      Re-Entry      Workover

X 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.     

10/1/99 10/6/99 11/12/99  
Spud Date Date Reached TD Completion Date

RECEIVED  
STATE CORPORATION COMMISSION  
OCT - 09 - 2000  
FEB - 9 - 2000  
CONSERVATION DIVISION  
Wichita, Kansas

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market, Room 2078, 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, Production Manager Date 2/8/00

Subscribed and sworn to before me this 8th day of Feb. 2000.

Notary Public Barbara J. Dodson  
Barbara J. Dodson  
Date Commission Expires 12/16/03

2/9/00 SA K.C.C. OFFICE USE ONLY  
F      Deny Letter of Confidentiality Attached  
C      Wireline Log Received  
C      Geologist Report Received  
Distribution  
     KCC      SWD/Rep      NGPA  
     KGS      Plug      Other (Specify)

BARBARA J. DODSON  
NOTARY PUBLIC  
STATE OF KANSAS  
My Appt. Exp. 12-16-03

X

Operator name Murfin Drilling Co., Inc.

Lease Name HANSEN C Well # 15

Sec. 23 Twp. 5 S Rge. 20

East  
 West

County Phillips

**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.Log  
Dual Induction log, Dual Compensated Porosity log  
Borehole Compensated Sonic Log

Log Formation (Top), Depth and Datums  Sample  
Name Top Datum

CASING RECORD <u>New</u> <u>Used</u> 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#	301'	60/40 Poz	180	3% cc, 2% gel
Production	7 7/8"	5 1/2"	15.5#	3654	AACon	190	
<i>Port Collar</i>				<i>1677'</i>		<i>250</i>	

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose: Perforate Protect Csg Plug Back TD Plug Off Zone	Depth Top/Btm	Type of Cement	# Sacks Used	Type and Percent Additives

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
4	3592-96, 3529-31	750 Gals 15% NE FE	3592-96

TUBING RECORD	Size <u>2 7/8"</u>	Set At <u>3592'</u>	Packer At	Liner <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or Inj.	Producing Method <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other
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Estimated Production Per 24 Hours	Oil Bbls <u>37 BO</u>	Gas Mcf	Water Bbls <u>155BW</u>	Gas-Oil Ratio	Gravity
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Disposition of Gas:

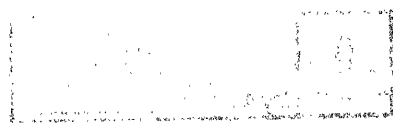
**METHOD OF COMPLETION**

Production Interval

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

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

As Above



**\*\*\*FINAL REPORT\*\*\*  
HANSEN C #15**

**ORIGINAL**

15-147-20590-00-00

Operator: MURFIN DRILLING COMPANY, INC.  
Contractor: MURFIN DRILLING COMPANY, INC. Rig #8

Contact Person: Scott Robinson  
Phone Number: 316-267-3241  
Well Site Geologist: Paul Gunzelman

300' FNL 2640' FEL  
Sec. 23-5S-20W  
Phillips County, Kansas

Call Depth: 2800'  
Spud: 1:00 p.m. 10/1/99  
Est. TD: 3700'

API# 15-147-20590  
Casing: 8 5/8" @ 300'  
Elevation: 2163' GL  
2168' KB

**DAILY INFORMATION:**

- 9/28/99 MIRT.
- 10/1/99 Spud @ 1:00 p.m. 10/1.
- 10/2/99 Drilling @ 780'. Cut 780'. DT: 8 hrs. (WOC). CT: none. Dev.: 1/2° @ 262'. Set 6 jts. = 254.70' of 8 5/8" surf. csg. @ 262', cmt'd w/ 180 sx. 60/40 poz, 3% cc, 2% gel, plug down @ 6:00 p.m., drilled out plug @ 2:00 a.m. 10/2 Circ. 2-3 bbl. by Allied.
- 10/3/99 Drilling @ 2580'. Cut 1800'. DT: none. CT: none. Dev.: none.
- 10/4/99 Drilling @ 3290'. Cut 710'. DT: none. CT: none. Dev.: none.
- 10/5/99 Drilling @ 3655'. Cut 365'. DT: none. CT: 9 hrs. Dev.: 1° @ 3655'. HC @ 10:00 p.m. 10/4/99. Log from 3:30-7:00 a.m. 10/5/99 by Log-Tech.
- 10/6/99 RTD @ <sup>3655'</sup> ~~3355'~~ Cut 0'. DT: none. CT: 11 hrs. Dev.: none. Ran 5 1/2" prod. csg. set @ 3654', cmt'd w/190 sx. AA con. plug down @ 5:30 p.m. by Swift. Rig released @ 6:00 p.m. 10/5/99.

<u>Formations</u>	<u>Sample Tops</u>	<u>Log Tops</u>	<u>Hansen C #13</u>
Anhydrite	1642 +526	1638 +530	+15
B/Anhydrite	1671 +497	1668 +500	+13
Topeka	3029 -861	3030 -862	+3
Heebner	3228 -1060	3226 -1058	+5
Toronto	3249 -1081	3250 -1082	+2
Lansing	3268 -1100	3267 -1099	+5
BKC	3471 -1303	3467 -1299	+7
Arbuckle	3529 -1361	3540 -1372	+8
RTD	3655		
LTD		3660 -1492	

**RECEIVED**  
STATE CORPORATION COMMISSION

**FEB -9 2000**

**SWIFT SERVICES, INC.**  
 PO BOX 466  
 NESS CITY, 67560-0466

15-147-20590-00-60

ORIGINAL  
**Invoice**

DATE	INVOICE #
10/25/99	1713

BILL TO
Murfin Drilling Co. Inc. PO Box 277 Logan, KS 67646

Post-It® Fax Note	7671	Date	# of pages
To	VIRGIL	From	BARB D.
Co./Dept.	HERE'S	Co.	MURFIN ORGL.
Phone #	INFO. ON	Phone #	
Fax #	HANSEN C 15	Fax #	

TXS.



TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose
Net 30	15	Hansen "C"	Phillips		Oil	Development	Cement Port Collar

PRICE REFERENCE	DESCRIPTION	QTY	UNIT PRICE	AMOUNT
575	Milage	50	2.00	100.00T
577	Pump Charge	1	650.00	650.00
330	Swift Multi-Density	250	9.50	2,375.00T
276	Flooclc	63	0.90	56.70T
581D	Service Charge Cement	250	1.00	250.00
583	Drayage	622.83	0.75	467.12T
	Subtotal			3,898.82
Discount	10% Discount		-10.00%	-389.88
	Subtotal			3,508.94
	Sales Tax		4.90%	132.25

CHARGE TO A/C

USED FOR 47

APPROVED	<i>[Signature]</i>
03601000	L 3137C 3641.19 cement port collar

Thank you for your business.

**Total** \$3,641.19

**SWIFT SERVICES, INC.**

PO BOX 466

NESS CITY, 67560-0466

**ORIGINAL  
Invoice**

15-147-20590-00-00

DATE	INVOICE #
10/5/99	1674

BILL TO
Murfin Drilling Co. Inc. PO Box 277 Logan, KS 67646

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose
Net 30	15	Hansen "C"	Phillips		Oil	Development	Longstring
PRICE REFERE...	DESCRIPTION			QTY	UNIT PRICE	AMOUNT	
575	Milage			50	2.00	100.00T	
578	Long String Pump Charge			1	1,200.00	1,200.00	
400-5	5 1/2" Guide Shoe			1	80.00	80.00T	
401-5	5 1/2" Insert Float with Auto Fill			1	110.00	110.00T	
402-5	5 1/2" Centralizers			14	40.00	560.00T	
403-5	5 1/2" Cement Basket			1	110.00	110.00T	
411-5	Roto Wall Scratchers			60	30.00	1,800.00T	
410-5	Top Plug			1	50.00	50.00T	
150	Rotating Head			1	100.00	100.00T	
281	Mud Flush			500	0.50	250.00T	
221	Liquid KCL			2	19.00	38.00	
404-5	5 1/2" Port Collar			1	1,300.00	1,300.00T	
325	Cement			190	6.75	1,282.50T	
284	Calseal			9	20.00	180.00T	
283	Salt			950	0.15	142.50T	
285	CFR-2			90	2.75	247.50T	
286	Halad-1			45	5.25	236.25T	
290	D-Air			45	2.75	123.75T	
581D	Service Charge Cement			190	1.00	190.00	
583	Drayage			497.25	0.75	372.94T	
	Subtotal					8,473.44	
Discount	10% Discount					-10.00%	-847.34
	Subtotal						7,626.10
	Sales Tax					4.90%	310.70
				RECEIVED STATE CORPORATION COMMISSION			
<b>Thank you for your business.</b>						<b>Total</b>	<b>\$7,936.80</b>

**CHARGE TO AFE**

USED FOR

APPROVED

47  
*[Signature]*

FEB - 9 2000

CONSERVATION DIVISION  
Wichita, Kansas





CHARGE TO: *Murfin Dalg Co.*  
 ADDRESS:  
 CITY, STATE, ZIP CODE: *Logan Ks*

15-147-20590-00 - TICKET No 1674

PAGE 1 OF 2

1. SERVICE LOCATIONS <i>Acas Cts Ks</i>	WELL/PROJECT NO. <i>15</i>	LEASE <i>Hanson "C"</i>	COUNTY/PARISH <i>Phillips</i>	STATE <i>Ks</i>	CITY	DATE <i>10-5-99</i>	OWNER <i>Same</i>
2. <i>OR</i>	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR	RIG NAME/NO. <i>Murfin</i>	SHIPPED VIA <i>104</i>	DELIVERED TO <i>S. Logan Ks</i>	ORDER NO.	
3. <i>O</i>	WELL TYPE <i>oil</i>	WELL CATEGORY <i>Development</i>	JOB PURPOSE <i>Longstony</i>	WELL PERMIT NO.	WELL LOCATION		
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UNIT PRICE		AMOUNT
		LOC	ACCT	DF		QTY.	U/M	QTY.	U/M	
575		1			MILEAGE <i>104</i>	50	mi	2.00		100.00
578					Pump Charge	1	EA	3635 FT		1200.00
400					Guide Shoe	1	EA	5 1/2 IW		80.00
401					insert w/ auto fill	1	EA			110.00
402					Centralsizer	14	EA	40.00		560.00
403					Cement Basket	1	CA			110.00
<del>411 299</del>					Roto Wall Sawatches	60	EA	30.00		1800.00
410					Top Plug	1	EA			50.00
<del>150 299</del>					Rotating Head	1	EA			100.00
281					Mud flush	500	Gal	50		250.00
221					Liquid KCL	2	Gal	19.00		38.00
					From Continuation Sheet					4075.44

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 CONSERVATION DIVISION  
 Wichita, Kansas

**LEGAL TERMS:** Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY** provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

X *[Signature]*  
 DATE SIGNED *10-5-99* TIME SIGNED *1300*  A.M.  P.M.

REMIT PAYMENT TO:  
 SWIFT SERVICES, INC.  
 P.O. BOX 466  
 NESS CITY, KS 67560  
 785-798-2300

SURVEY	AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL	8473.44
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				10% Discount	
WE UNDERSTOOD AND MET YOUR NEEDS?				Std Price	7626.10
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				TAX	310.40
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				TOTAL	7936.80
ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND				

**JOB LOG**

15-147-20590-00-00  
**SWIFT Services, Inc.**

**ORIGINAL**

DATE 10-5-99 PAGE NO. 1  
 TICKET NO. 1674

CUSTOMER *Murfin* WELL NO. 15 LEASE *Hansen "C"* JOB TYPE *Longsheng*

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1200							On Location Rig Laying Down D.P.
	1400							Start 5 1/2 15.5 # CSG Run Guide shoe, insert w/parts fill, Centralizers on Collars 1, 3, 5, 7, 9, 11, 13, 15, 45, 52, 54, 56, 58, 60 Port collar at 1677 Bottom of St 47 Basket on St 46 60 5' Rotowall scratches across Production Zones welded on pipe csq on bottom hook up to circ + rotate
	1545							Start Circulating w/ Rig Pump
	1557							finish Circulating hook up to mix Cement
	1653							Start 500 gal mud flush, 20 BBL RCC water, 190 SKS EA-2 Cement w/ 5% Calceal, 10% Salt, 1/2% CFR-2, 1/4% D-AIR, 1/4% Haled-1
	1656	6	12 BBL 20 BBL				300	finish mixing Cement wash out P&C Release Top Plug
	1715		46 BBL					Start Deep Rotate until Last 10 BBL DISF
	1717	7					0	Plug Down
	1730	4	85 BBL				1200	Release float held
	1735							Job Complete
	1800							

Thanks! *Lenny Wayne*

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FEB - 9 2000

CONSERVATION DIVISION  
 Wichita, Kansas



# ALLIED CEMENTING CO., INC.

Federal Tax I.D.# ~~41-4772700~~

1992 ORIGINAL

TO P.O. BOX 31  
RUSSELL, KANSAS 67665

15-147-20590-00-00

SERVICE POINT:

Russell

DATE <u>10/1/99</u>	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION <u>5:15 p.m.</u>	JOB START <u>5:45 p.m.</u>	JOB FINISH <u>6:15 p.m.</u>
LEASE <u>Hansen</u>	WELL # <u>C-15</u>	LOCATION <u>Logan SS 1E 1/2 N 1/4 E</u>			COUNTY <u>Phillips</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)				<u>1/2 N 1/4 E T-10</u>			

CONTRACTOR Marlin Rig #8

TYPE OF JOB Surface

HOLE SIZE 12 1/4" 262 T.D. 262

CASING SIZE 8 5/8" DEPTH 262

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

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

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

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

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

CEMENT LEFT IN CSG. 0-15

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

DISPLACEMENT 10 Bbl.

EQUIPMENT

PUMP TRUCK CEMENTER Paul

# 153 HELPER \_\_\_\_\_

BULK TRUCK

# 160 DRIVER Lon

BULK TRUCK

# \_\_\_\_\_ DRIVER \_\_\_\_\_

OWNER \_\_\_\_\_

CEMENT

AMOUNT ORDERED 180 60/40 37 CC  
290 lb/c

COMMON	<u>108</u>	@	<u>6 35</u>	<u>685 00</u>
POZMIX	<u>72</u>	@	<u>3 25</u>	<u>234 00</u>
GEL	<u>3</u>	@	<u>9 50</u>	<u>28 50</u>
CHLORIDE	<u>6</u>	@	<u>28 00</u>	<u>168 00</u>
		@		
		@		
		@		
		@		
		@		
HANDLING		@	<u>1 05</u>	<u>189 00</u>
MILEAGE	<u>4 1/2 sk/mile</u>			<u>468 00</u>
				TOTAL <u>1773 30</u>

REMARKS:

SERVICE

Cement Circulated ✓

Thank You!

DEPTH OF JOB \_\_\_\_\_

PUMP TRUCK CHARGE \_\_\_\_\_ 470 00

EXTRA FOOTAGE \_\_\_\_\_ @ \_\_\_\_\_

MILEAGE \_\_\_\_\_ @ \_\_\_\_\_

PLUG \_\_\_\_\_ @ 45 46 00

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

TOTAL 515 00

CHARGE TO: Marlin Rig Co.

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

RECEIVED  
STATE CORPORATION COMMISSION

FEB - 9 2000

CONSERVATION DIVISION  
Wichita, Kansas

FLOAT EQUIPMENT

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.

	@	
	@	
	@	
	@	
	@	
TOTAL		
TAX		
TOTAL CHARGE		
DISCOUNT		IF PAID IN 30 DAYS

SIGNATURE Louis McPenna

LOUIS McPENNA  
PRINTED NAME