

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- 189-21863-0000

County STEVENS

C - SE - SE Sec. 14 Twp. 31S Rge. 35 X E

660 Feet from (S) N (circle one) Line of Section

660 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 MOOREHEAD "C" Well # 5

Field Name LAHEY

Producing Formation L. CHESTER

Elevation: Ground 2927.6 KB 2937.6

Total Depth 5850' PBDT 5760'

Amount of Surface Pipe Set and Cemented at 1741 Feet

Multiple Stage Cementing Collar Used? X Yes No

If yes, show depth set 2972 Feet

If Alternate II completion, cement circulated from

feet depth to w/ sx cmt.

Drilling Fluid Management Plan ACT 1 DW
(Data must be collected from the Reserve Pit) 6-14-96

Chloride content 1600 ppm Fluid volume 5000 bbls

Dewatering method used NATURAL EVAPORATION

Location of fluid disposal if hauled offsite:

Operator Name

Lease Name License No.

 Quarter Sec. Twp. S Rng.

County Docket No.

Operator: License # 4549

Name: ANADARKO PETROLEUM CORPORATION

Address P. O. BOX 351

City/State/Zip LIBERAL, KANSAS 67905-0351

Purchaser: TEXACO TRADING & TRANSPORTATION COMPANY

Operator Contact Person: J. L. ASHTON

Phone (316) 624-6253

Contractor: Name: NORSEMAN DRILLING INC.

License: #3779

Wellsite Geologist: NA

CONFIDENTIAL

Designate Type of Completion
X New Well Re-Entry Workover

X Oil SWD SLOW Temp. Abd.

 Gas ENHR SIGW

 Dry Other (Core, WSW, Expl., Cathodic, etc)

If Workover:

Operator:

Well Name:

Comp. Date Old Total Depth

 Deepening Re-perf. Conv. to Inj/SWD

 Plug Back PBDT

 Commingled Docket No.

 Dual Completion Docket No.

 Other (SWD or Inj?) Docket No.

1-8-95 1-18-95 2-23-95
Spud Date Date Reached TD Completion Date

RELEASED

JUN 13 1996

FROM CONFIDENTIAL

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.

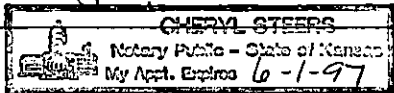
Signature L. Marc Harvey
L. MARC HARVEY

Title DRILLING TECHNICAL ASSISTANT Date 3-8-95

Subscribed and sworn to before me this 8th day of March, 19 95.

Notary Public Cheyl Steers

Date Commission Expires



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

Form ACO-1 (7-91) STATE CORPORATION COMMISSION
RECEIVED
MAR 13 1995
CONSERVATION DIVISION
WICHITA, KANSAS

SIDE TWO

Operator Name ANADARKO PETROLEUM CORPORATION Lease Name MOOREHEAD "C" Well # 5
 Sec. 14 Twp. 31S Rge. 35 East West
 County STEVENS

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 Log Formation (Top), Depth and Datums Sample
 (Attach Additional Sheets.)
 Samples Sent to Geological Survey Yes No Datum
 Cores Taken Yes No
 Electric Log Run Yes No
 (Submit Copy.)
 List All E.Logs Run: CCL-CBL-GR. SONIC, FULL WAVE SONIC, MSFL, ML, CNL-LDT, DIL.

Name	Top	Datum
B/CIMARRON ANHY	1758	
WELLINGTON	2192	
CHASE	2538	
COUNCIL GROVE	2852	
WABAUNSEES	3332	
HEEBNER	4003	
LANSING	4136	
KANSAS CITY	4610	
MORROW	5335	
CHESTER	5500	
STE. GENEVIEVE	5638	
ST. LOUIS	5684	
T.D.	5850	

CASING RECORD <input checked="" 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	1741	PREMIUM PLUS/ PREMIUM PLUS	665/160	2%CC/ 2%CC
PRODUCTION	7 7/8	5 1/2	15.5	2555	50/50 POZMIX 50/50 POZMIX	50/125	.75% HALID 322 18% SALT/.75% HALID 1/4#/SX FLC
			F.O. TOOL @	2972	MIDCON 2	90	NONE

ADDITIONAL CEMENTING/SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
Perforate				
Protect Casing				
Plug Back TD				
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
2	5574-5602	FRAC 36975GAL 40# BORATE XLINK GELLED 2%KCL WTR & 150000# 10/30 SAND	5574-5602'

TUBING RECORD		Size	Set At	Packer At	Liner Run	Production Interval	
		2 7/8	5509		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Date of First, Resumed Production, SWD or Inj. FIRST PRODUCTION 2/24/95			Producing Method		<input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)		
Estimated Production Per 24 Hours	Oil 154 Bbls.	Gas TSTM Mcf	Water 24 Bbls.	Gas-Oil Ratio	Gravity 40 API		

Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACO-18.)
 METHOD OF COMPLETION: Open Hole Perf. Dually Comp. Commingled
 Production Interval: 5574-5602'

ORIGINAL

NORSEMAN DRILLING, INC.
WICHITA, KANSAS
DRILLERS' WELL LOG

CONFIDENTIAL

RELEASED

WELL NAME: MOOREHEAD C-5
SECTION 14-31S-35W
STEVENS COUNTY, KANSAS

JUN 13 1996

COMMENCED: JANUARY 7, 1995

COMPLETED: JANUARY 20, 1995

FROM CONFIDENTIAL

OPERATOR: ANADARKO PETROLEUM CORPORATION

Depth		Formation	Remarks
From	To		
0	1146	Sand & Redbed	Ran 43 jts of 24#
1147	1393	Glorietta Sand	8 5/8" csg set @
1394	2274	Redbed & Shale	1742'; w/625 SX of
2275	5850	Lime - Shale	50/50 Poz.; 4% Gel; 2% CC; Tailed w/200 SX Class "H"; 2% CC; Plug down at 4:00 p.m. on 01/10/95.

Ran 147 jts 5 1/2" 15.5#, Set @ 5850'; w/50 SX Premium pozmix; 10.75% Halad-322; 18% Salt; Tailed w/125 SX 50/50 pozmix; 0.75% Halad-322; 10% Salt; 1/4# SX Flocele; Plug down at 5:30 p.m., on 01/20/95.

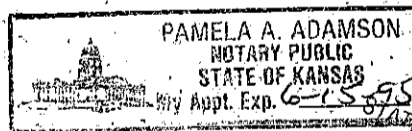
STATE OF KANSAS)I, the undersigned, being duly sworn on
)oath, state that the above Drillers' Well
)Log is true and correct to the best of my
)knowledge and belief and according to the
COUNTY OF SEDGWICK)records of this office.

NORSEMAN DRILLING, INC.

JAMES P. REILLY, PRESIDENT

Subscribed & sworn to before me this

January 25, 1995



My Appointment Expires:

June 15, 1995

Pamela A. Adamson, Notary Public
340 Seville
Wichita, KS 67209

RECEIVED
CORPORATION COMMISSION
MAR 13 1995
CONSERVATION DIVISION
WICHITA, KANSAS



JOB SUMMARY

HALLIBURTON DIVISION
HALLIBURTON LOCATION

Mid CONTINENT
LIBERAL, KS

BILLED ON TICKET NO. 706058

WELL DATA

FIELD LAHEY / CHURCHMAN SEC 14 TWP 31 RING 35 COUNTY STEVENS 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 5850

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	N	15.5	5 1/2	SB	5845	
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

JOB DATA

CALL OUT DATE	ON LOCATION DATE	JOB STARTED DATE	JOB COMPLETED DATE
<u>7-20-94</u>	<u>1-20-94</u>	<u>1-20-94</u>	<u>1-20-94</u>
TIME <u>0530</u>	TIME <u>0830</u>	TIME <u>1639</u>	TIME <u>1740</u>

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE <u>REG 5 1/2</u>	<u>1</u>	<u>HOWCO</u>
CENTRALIZERS <u>5 1/2</u>	<u>16</u>	<u>" "</u>
BOTTOM PLUG		
TOP PLUG <u>S-W 5 1/2</u>	<u>1</u>	<u>" "</u>
HEAD <u>P/C 5 1/2</u>	<u>1</u>	<u>" "</u>
PACKER		
OTHER <u>AIF 5 1/2</u>	<u>1</u>	<u>" "</u>

MATERIALS

TREAT. FLUID _____ DENSITY _____ LB/GAL. API
DISPL. FLUID _____ DENSITY _____ LB/GAL. API
PROP. TYPE _____ SIZE _____ LB.
PROP. TYPE _____ SIZE _____ LB.
ACID TYPE _____ GAL. _____ %
ACID TYPE _____ GAL. _____ %
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. _____ IN
PERFPAC BALLS TYPE _____ QTY. _____
OTHER _____
OTHER _____

CONFIDENTIAL

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>J. Woodrow 62573</u>	<u>40048</u>	<u>LIBERAL KS</u>
<u>T. POYER</u>	<u>P/U 52276/RPC 176900</u>	<u>" "</u>
<u>R. ANDERSON</u>	<u>3626/BULK 15302</u>	<u>HUGOTON KS</u>
	RELEASED	
	<u>JUN 13 1996</u>	
	FROM CONFIDENTIAL	

DEPARTMENT CEMENT

DESCRIPTION OF JOB CEMENT 5 1/2 PRODUCTION CASING

JOB DONE THRU: TUBING CASING ANNULUS TBG./ANN.

CUSTOMER REPRESENTATIVE X Jim Barlow

HALLIBURTON OPERATOR John Woodrow

COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<u>50</u>	<u>50/50 p02 premium</u>	<u>HALCO</u>	<u>B</u>	<u>.75% HALCO-322, 1.8% SALT</u>	<u>2.54</u>	<u>12.0</u>
	<u>125</u>	<u>" "</u>	<u>" "</u>	<u>B</u>	<u>.75% HALCO-322, 1.8% SALT</u>	<u>1.30</u>	<u>14.5</u>

PRESSURES IN PSI

SUMMARY

VOLUMES

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 _____ REASON _____

PRESLUSH: BBL.-GAL. (20)(30)(20) TYPE MUD FLUSH
LOAD & BKDN: BBL.-GAL. _____ PAD: BBL. _____
TREATMENT: BBL.-GAL. _____ DISPL. (BBL) GAL. 938.0
CEMENT SLURRY (BBL) GAL. 23.6 LC
TOTAL VOLUME: BBL.-GAL. 29.0 TC
REMARKS 51.6
PLACE TO TOOL ON #65 ST (2976)
RECIPROCATING PIPE WHILE CMT

MAR 13 1996
STATE OF KANSAS
DIVISION OF COMMISSIONERS

CUSTOMER: ANDERSON PET. CO.
LEASE: MOOREFIELD
WELL NO: C-5
JOB TYPE: 5 1/2 LWS STRINGS



JOB LOG HAL-2013-C

CUSTOMER ANADARKO PETROLEUM WELL NO. C-5 LEASE MOOREHEAD JOB TYPE 5 1/2" LONG STRING TICKET NO. 706058

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0900							Job Ready
	0538							CONFIDENTIAL CALLED OUT FOR JOB
	0830							PUMP TRUCK ON LOCATION
	0810							BULK TRUCK ON LOCATION
	0845							RIG START LAYING DOWN DRILL PIPE
	1200							ORIGINAL D.P LAYED DOWN -
	1230							START RUNNING 5 1/2" CSG & FLT EQUIP
	1340							PLACE FO TOOL AT (2970')* 65 JT
								FINISH RUNNING CASING TO BOTTOM
								HOOK UP 5 1/2" P/C + CIRCULATING IRON
	1555	4.0			✓		600'	START CIRCULATING WITH RIG PUMP
	1630							- HOLD SAFETY MEETING -
								THROUGH CIRCULATING - HOOK UP TO PUMP TRUCK
								- JOB PROCEDURE -
	1639	6.0	20		✓		280'	PUMP 20 BBLS 28 KGL WATER
	1642	6.0	30		✓		275'	PUMP 30 BBLS MUD FLUSH
	1647	6.0	20		✓		200'	PUMP 20 BBLS 28 KGL WATER
	1655	6.5			✓		180'	START MIXING LEAD CMT AT 12.0 ^{lb} /GAL
	1658	6.0			✓		170'	START MIXING TAIL CMT AT 14.6 ^{lb} /GAL
	1701							THROUGH MIXING CEMENT - SHUT DOWN
	1703							RELEASE PLUG - WASH UP
	1705	6.5			✓		85'	START DISPENSING
	1712	7.5	60.0					HAVE 60 BBLS IN - SLOW RATE DOWN
								LET WATER TANK CATCH UP
		1.0	120		✓			HAVE 120 BBLS IN SLOW RATE DOWN
								TO 1 BPM
	1735	3.5	380		✓			HAVE 130 BBLS IN INCREASE RATE
								TO 3.5 BPM
	1740		1				2000'	LAND PLUG AT 2000' - HOLDING
								RELEASE FLT - FLOAT HEUD
								MAX 6 FT PRESSURE - 600'
								RELEASED
								JUN 13 1996
								FROM CONFIDENTIAL
								THANK YOU!
								woody, TO m. RON

RECEIVED STATE CORPORATION COMMISSION MAR 15 1995 WICHITA KANSAS



CHARGE TO: AMADARCO Petroleum
 ADDRESS: _____
 CITY, STATE, ZIP CODE: _____

COPY _____
 No. 706058-1
 TICKET _____
 PAGE 9 OF 9

FORM 1908 R-13

SERVICE LOCATIONS 1. <u>025540 LIBERAL</u>	WELL/PROJECT NO. <u>C-5</u>	LEASE <u>DEEREHEAD</u>	COUNTY/PARISH <u>STEVENS</u>	STATE <u>KS</u>	CITY/OFFSHORE LOCATION <u>MOSCOW</u>	DATE <u>1-20-95</u>	OWNER <u>AMADARCO</u>
2. <u>07035 HUGOTON</u>	TICKET TYPE <input checked="" type="checkbox"/> SERVICE	NITROGEN JOB? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	CONTRACTOR <u>MOOREMAN DRIG #3</u>	RIG NAME/NO.	SHIPPED VIA <u>57</u>	DELIVERED TO <u>WELL SITE</u>	ORDER NO.
3.	WELL TYPE	WELL CATEGORY <u>01-DEVELOPMENT</u>	JOB PURPOSE <u>235" 5/8" LONG STRING</u>	WELL PERMIT NO.	WELL LOCATION <u>LAND</u>		
4.	REFERRAL LOCATION	INVOICE INSTRUCTIONS					

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
000-117		/			MILEAGE	32	M	2	U	2.75	88.00
001-016		/			PUMP CHARGE	5845	FT			200.00	1,176.00
030-016		/			5/8" TOP PLUG	1	EA	5 1/2	IN	60.00	60.00
218-315		/			MUD FLUSH	1260	GAL			31.50	396.00
319-163		/			CLAY FIX IT	4	GAL			28.00	112.00
12A	837-0100	/			REGULAR GUIDE SHOE	1	EA	5 1/2	IN	121.00	121.00
29A	815-17251	/			INSERT FLAT	1	EA	5 1/2	IN	110.00	110.00
27	815-17311	/			FILL UP ASSY	1	EA	100	IN	55.00	55.00
40	806-6022	/			CENTRALIZERS	16	EA	5 1/2	IN	60.00	960.00

CONFIDENTIAL

ORIGINAL

RELEASED

JUN 13 1996

FROM CONFIDENTIAL

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.

CUSTOMER OR CUSTOMER'S AGENT SIGNATURE: Jim Barlow

DATE SIGNED: 1/20/95 TIME SIGNED: 7:00

do not require IPC (Instrument Protection). Not offered

SUB SURFACE SAFETY VALVE WAS: <input type="checkbox"/> PULLED & RETURN <input type="checkbox"/> PULLED <input type="checkbox"/> RUN	SURVEY <input type="checkbox"/> AGREE <input type="checkbox"/> UN-DECIDED <input type="checkbox"/> DIS-AGREE	PAGE TOTAL <u>4413.10</u>
TYPE LOCK DEPTH	OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?	FROM CONTINUATION PAGE(S) <u>3038.15</u>
BEAN SIZE SPACERS	WE UNDERSTOOD AND MET YOUR NEEDS?	
TYPE OF EQUALIZING SUB. CASING PRESSURE	OUR SERVICE WAS PERFORMED WITHOUT DELAY?	
TUBING SIZE TUBING PRESSURE WELL DEPTH	WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?	<u>7451.5</u>
TREE CONNECTION TYPE VALVE	ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO	SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND		

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

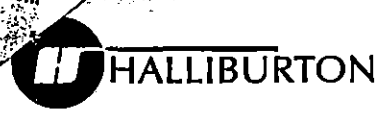
CUSTOMER OR CUSTOMER'S AGENT (PLEASE PRINT): Jim Barlow

CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE): Jim Barlow

HALLIBURTON OPERATOR/ENGINEER: Mike Worthington 62573

HALLIBURTON APPROVAL: _____

made in writing
s 77056



HALLIBURTON ENERGY SERVICES

TICKET CONTINUATION

DUNCAN COPY 3
88

M.G.

TICKET No. 706058

CUSTOMER Anadarko Petroleum corp.	WELL Moorehead C-5	DATE 01-20-95	PAGE OF
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FORM 1911 R-10

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF		QTY.	U/M	QTY.	U/M		
504-131					50/50 Premium Pozmix Cement	175	sk			8.32	1456.00
504-043	516.00272				Premium Cement	88	sk				
506-105	516.00286					6438	lb				
506-121	516.00259					3	sk				
507-775	516.00144				Halad-322 .75%W/ 175	110	lb			7.00	770.00
509-968	516.00315				Granulated Salt 18%W/ 175g	2161	lb			1.15	324.15
507-210	890.50071				Flocele 1/2#W/ 125	33	lb			1.65	54.45
<p>CONFIDENTIAL</p> <p>ORIGINAL</p> <p>RELEASED JUN 13 1996</p> <p>FROM CONFIDENTIAL</p>											
500-207					SERVICE CHARGE	CUBIC FEET		206		1.35	278.10
500-306					MILEAGE CHARGE	TOTAL WEIGHT	LOADED MILES	TON MILES	164.0175	.95	155.82
					17265	19					

No. B 263366

CONTINUATION TOTAL 3038.52

WELL DATA

FIELD _____ SEC. *14* TWP. *315* RING. *350* COUNTY *Stevens* 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 *1748'*

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	<i>N</i>	<i>24</i>	<i>8 5/8</i>	<i>10 5/8</i>	<i>1740</i>	
LINER						
TUBING						
OPEN HOLE				<i>1710</i>	<i>1742</i>	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <i>1-10-95</i>	DATE <i>1-10-95</i>	DATE <i>1-10-95</i>	DATE <i>1-10-95</i>
TIME <i>0815</i>	TIME <i>1000</i>	TIME <i>1300</i>	TIME <i>1710</i>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<i>L.P. Chomeler #59734</i>	<i>40091</i>	<i>Neays, KS</i>
<i>R. Berens # 54220</i>	<i>51374</i>	<i>Neays, KS</i>
<i>M. House # F7343</i>	<i>51984-6611</i>	<i>Neays, KS</i>
<i>A. Worth # 86101</i>	<i>3617 + 3200</i>	<i>Neays, KS</i>

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS		
BOTTOM PLUG		
TOP PLUG <i>SW 8 5/8"</i>	<i>1</i>	<i>Hawco</i>
HEAD		
PACKER		
OTHER <i>1 can Hawco weld</i>	<i>1</i>	<i>Hawco</i>

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 *cmf*

DESCRIPTION OF JOB *cmf 1740's surf casing*

JOB DONE THRU: TUBING CASING ANNULUS TBG/ANN.

CUSTOMER REPRESENTATIVE *[Signature]*

HALLIBURTON OPERATOR *[Signature]* COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<i>665</i>	<i>D + NLC</i>	<i>P. +</i>	<i>B</i>	<i>29.0cc</i>	<i>2.05</i>	<i>12.8</i>
	<i>160</i>	<i>1</i>	<i>P. +</i>	<i>B</i>	<i>29.0cc</i>	<i>1.34</i>	<i>14.8</i>

PRESSURES IN PSI

SUMMARY

VOLUMES

CIRCULATING _____ DISPLACEMENT _____ PRES LUSH: BBL.-GAL. _____ TYPE _____

BREAKDOWN _____ MAXIMUM _____ LOAD & BKDN: BBL.-GAL. _____ PAD: BBL.-GAL. _____

AVERAGE _____ FRACTURE GRADIENT _____ TREATMENT: BBL.-GAL. _____ DISPL.: BBL.-GAL. *110*

SHUT-IN: INSTANT _____ 5-MIN _____ 15-MIN _____ CEMENT SLURRY: BBL. *242.6* *38.3*

HYDRAULIC HORSEPOWER _____ TOTAL VOLUME: BBL.-GAL. _____

ORDERED _____ AVAILABLE _____ USED _____

AVERAGE RATES IN BPM _____

TREATING _____ DISPL. _____ OVERALL _____

CEMENT LEFT IN PIPE _____

FEET *42.80'* REASON *Shoe Hr.*

REMARKS

Thank you Ken & Pat

CUSTOMER *Amo Arka*
LEASE *Morsehead*
WELL NO. *C-5*
JOB TYPE *Surface*
DATE *1-10-95*

CONFIDENTIAL

FROM CONFIDENTIAL



JOB LOG HAL-2013-C

DATE: 1-10-95 PAGE NO. 1
 TICKET NO. 706177

CUSTOMER: Ana Laro WELL NO.: C-5 LEASE: Moorehead JOB TYPE: Surface

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0815							Called out to amt 1740' Surf. pipe 8 5/8" w/ 665 SKS P+ NLC. 290cc 160 SKS P+ 290 CC
	1000							On loc Drig @ 1735'
	1030							Hole made @ 1742' 4pump DA
	1310							5th casing (1741')
	1440							Casing to TD 1742' Hook to circ w/ Rig pumps
	1450							Broke circulation & circ. for 10 min
	1510	7						Hook up to pump + vk pump 366L spacer (water) + st. mix cmt 665 SKS P+ NLC 290cc + 160 SKS
	1547	7	278				100	cmt mixed, Rel Plug + st. Displ circ. cmt. to pit. ✓
	1605	3	110				475	Ldg. Plug @ 1698" GL.
	1608							Rel to trk (float held)
	1625							wash & rack up trk
	1710							Job complete Thank you Ken & crew

ORIGINAL

CONFIDENTIAL

RELEASED

JUN 13 1996

FROM CONFIDENTIAL



CHARGE TO: Ames works
 ADDRESS: _____
 CITY, STATE, ZIP CODE: _____

COPY _____
 No. **706177 - X**
 PAGE 1 OF 3

FORM 1906 R-13

SERVICE LOCATIONS 1. <u>Ames 255025</u>	WELL/PROJECT NO. <u>C-5</u>	LEASE <u>Murchhead</u>	COUNTY/PARISH <u>St. Charles</u>	STATE <u>LA</u>	CITY/OFFSHORE LOCATION	DATE <u>1-12-95</u>	OWNER <u>same</u>
2.	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	NITROGEN JOB? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	CONTRACTOR <u>HALLIBURTON</u>	RIG NAME/NO. <u>#3</u>	SHIPPED VIA	DELIVERED TO	ORDER NO.
3.	WELL TYPE <u>02</u>	WELL CATEGORY <u>01</u>	JOB PURPOSE <u>010</u>	WELL PERMIT NO. <u>15-179-21863</u>	WELL LOCATION <u>14-31-35</u>		
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS <u>amt 1741.30 + 30.00 + 28.00 + 165.00 + 115.00 + 2200 + 160.00 + 2 + 2.00 PT = Premium Plus</u>						

PRICE REFERENCE	SECONDARY REFERENCE / PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
000-117					MILEAGE # 51274	72	mi			2.75	198.00
000-016					Pump & log	1342	ft			1.30	1744.60
030-015					500 Plug	1	ea	25	mi	130.00	130.00
350	270 10902				Hardware A	1	ea			14.50	14.50

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RELEASED

JUN 13 1996

FROM CONFIDENTIAL

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.

CUSTOMER OR CUSTOMER'S AGENT SIGNATURE
Jim Barlow
 DATE SIGNED: 1-12-95 TIME SIGNED: 11:50 A.M. P.M.
 do do not require IPC (Instrument Protection). Not offered

SUB SURFACE SAFETY VALVE WAS:
 PULLED & RETURN PULLED RUN

TYPE LOCK	DEPTH
BEAN SIZE	SPACERS
TYPE OF EQUALIZING SUB.	CASING PRESSURE
TUBING SIZE	TUBING PRESSURE
	WELL DEPTH
TREE CONNECTION	TYPE VALVE

SURVEY	AGREE	UN-DECIDED	DIS-AGREE
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?			
WE UNDERSTOOD AND MET YOUR NEEDS?			
OUR SERVICE WAS PERFORMED WITHOUT DELAY?			
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?			
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
<input checked="" type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND			

PAGE TOTAL	1602	50
FROM CONTINUATION PAGE(S)	11,339	04
SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE	13,000	54

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

CUSTOMER OR CUSTOMER'S AGENT (PLEASE PRINT) <u>Jim Barlow</u>	CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE) <u>Jim Barlow</u>	HALLIBURTON OPERATOR/ENGINEER <u>[Signature]</u>	EMP #	HALLIBURTON APPROVAL
--	---	---	-------	----------------------



JOB LOG HAL-2013-C

CUSTOMER ANADARKO	WELL NO. C-5	LEASE MOORE HEAD	JOB TYPE CEMENT PORT COLLAR	TICKET NO. 705823
----------------------	-----------------	---------------------	--------------------------------	----------------------

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0600							called out READY 0900
	0830							ON LOCK. Hooked To Swivel
	0907							PRESSURE TEST PORT COLLAR
	0910	2	6.5			1500		SHUT DOWN
	0914	5				800 800		OPEN TOOL GET INJECTION
	0915							SHUT DOWN MIX CMT.
	0919	3.3	32					RUN CMT. 12.8% GAL
	0929	3.3	11			800	2100	START DISP. BEHIND.
	0932	0				0		SHUT DOWN Pull out of tool
	0933	1	1			1500		PRESSURE TEST
	0934							RUN 1 JT IN Hole To REVERSE
								OUT
	0944	3.3	20			500		REVERSE OUT
	0950	0	0					SHUT DOWN Job OVER
								THANKS. FOR CALLING
								HALLIBURTON ENERGY SERVICES
								LIBERAL & KS.
								HAVE A GOOD DAY
								BROADFOOT - CRIST - FROST
								ORIGINAL
								CONFIDENTIAL
								RELEASED
								JUN 13 1996
								FROM CONFIDENTIAL
								RECEIVED STATE COMMISSION MAR 7 3 1995
								STATE COMMISSION DIVISION WICHITA, KANSAS



JOB SUMMARY

HALLIBURTON DIVISION

LIBERAL KS.

BILLED ON TICKET NO. 705823

WELL DATA
FIELD _____ SEC. 14 TWP. 31S RNG. 35W COUNTY STEVENS 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 EO. Tool SET AT 2972
 BOTTOM HOLE TEMP. _____ PRESSURE _____
 MISC. DATA _____ TOTAL DEPTH _____

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	<u>12</u>	<u>13.5</u>	<u>5 1/2</u>	<u>K.B.</u>	<u>5850</u>	
LINER						
TUBING	<u>12</u>	<u>4.6</u>	<u>2 3/4</u>	<u>K.B.</u>	<u>2972</u>	
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

TOOLS AND ACCESSORIES

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

ORIGINAL

JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>2-3-95</u> TIME <u>0600</u>	DATE <u>2-3-95</u> TIME <u>0830</u>	DATE <u>2-3-95</u> TIME <u>0900</u>	DATE <u>2-3-95</u> TIME <u>1000</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>T. Broadfoot</u>	<u>38242</u>	<u>LIBERAL KS.</u>
<u>R. CRIST</u>	<u>52947</u>	<u>"</u>
<u>J. FROST</u>	<u>4461</u>	<u>HUGOTON KS</u>

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.
 GELLING AGENT TYPE _____ GAL.-LB. _____ IN.
 FRIC. RED. AGENT TYPE _____ GAL.-LB. _____ IN.
 BREAKER TYPE _____ GAL.-LB. _____ IN.
 BLOCKING AGENT TYPE _____ GAL.-LB. _____
 PERFFAC BALLS TYPE _____ QTY. _____
 OTHER _____

CONFIDENTIAL

DEPARTMENT CEMENT
 DESCRIPTION OF JOB CEMENT PORT COLLAR
 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	ADJUSTIVE RELEASED	YIELD CU.FT./SK.	MIXED LBS./GAL.
<u>1</u>	<u>90</u>	<u>MARCON 2</u>		<u>B</u>	<u>RELEASED</u>	<u>1.99</u>	<u>12.8</u>
					<u>JUN 13 1996</u>		
					<u>FROM CONFIDENTIAL</u>		

PRESSURES IN PSI

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 _____ REASON _____

SUMMARY

VOLUMES

PRESLUSH: BBL.-GAL. _____ TYPE _____
 LOAD & BKDN: BBL.-GAL. _____ PAD: BBL.-GAL. _____
 TREATMENT: BBL.-GAL. _____ DISPL. BBL.-GAL. 11
 CEMENT SLURRY: BBL.-GAL. 32
 TOTAL VOLUME: BBL.-GAL. _____

REMARKS

CUSTOMER: ADDARIO
 LEASE: MOOREHEAD
 WELL NO: C-5
 JOB TYPE: CEMENT PORT COLLAR DATE: 2-3-95

