

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

Operator: License # 4549

Name: ANADARKO PETROLEUM CORPORATION

Address P. O. BOX 351

City/State/Zip LIBERAL, KANSAS 67905-0351

Purchaser: TO BE DETERMINED

Operator Contact Person: J. L. ASHTON

Phone (316) 624-6253

Contractor: Name: NORSEMAN DRILLING, INC.

License: 3779

Wellsite Geologist: NA

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:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Deepening Re-perf. Conv. to Inj/SWD
 Plug Back PBD
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Inj?) Docket No. _____

10/21/94 10/30/94 1/13/95
Spud Date Date Reached TD Completion Date

API NO. 15- 189-21,777 -00 -00

County STEVENS

C - NW - NW - SW Sec. 7 Twp. 33S Rge. 37 X W

2310 Feet from (circle one) Line of Section

330 Feet from (circle one) Line of Section

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

Lease Name HIGGINS "A" Well # 1

Field Name GENTZLER

Producing Formation LOWER MORROW

Elevation: Ground 3134 KB 3144.6

Total Depth 6240 PBD 6048

Amount of Surface Pipe Set and Cemented at 1705 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set 3026 Feet

If Alternate II completion, cement circulated from _____

feet depth to _____ w/ _____ sx cmt.

Drilling Fluid Management Plan ALT 1 JK 1-5-96
(Data must be collected from the Reserve Part)

Chloride content 75,310 ppm Fluid volume 5000 bbls

Dewatering method used NATURAL EVAPORATION

Location of fluid disposal if hauled offsite: _____

Operator Name NUL

Lease Name FEB 2 License No. _____

Quarter CON Sec. _____ Twp. _____ S. Rng. _____ E/W

County CON Docket No. _____

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.

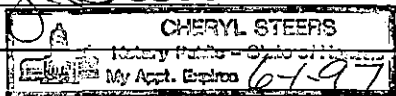
Signature Leslie I. Barnes
LESLIE I. BARNES

Title SENIOR TECHNICAL ASSISTANT Date 2/21/95

Subscribed and sworn to before me this 21st day of February, 1995.

Notary Public Cheryl 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

RELEASED
MAR 1 4 1996
FROM CONFIDENTIAL
FEB 22 1995
2-22-95
CONSERVATION DIVISION
WICHITA, KANSAS

Operator Name ANADARKO PETROLEUM CORPORATION Lease Name HIGGINS "A" Well # 1

Sec. 7 Twp. 33S Rge. 37 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
 (Attach Additional Sheets.)
 Samples Sent to Geological Survey Yes No
 Cores Taken Yes No
 Electric Log Run Yes No
 (Submit Copy.)

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

List All E.Logs Run: **SEGMENTED BOND
 MICRO
 BOREHOLE COMPENSATED SONIC
 COMPENSATED NEUTRON
 DUAL INDUCTION
 TRIPLE COMBO MICRO**

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	1705	50/50 POZMIX/ COMMON	550/200	4%GEL, 2%CC, 1/4#/ SX FLOCELE/2%CC
PRODUCTION	7 7/8	5 1/2	15.5	6200	65/35 POZMIX/ THIXSET	50/160	1/4#SX FLOCELE/ 5%KCL, 1/4#SX FLOC
		FO TOOL @		3026	65/35 POZMIX	100	

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
2	6056-6061 CIBP @ 6048'	ACIDIZE W/1000 GALS 7.5% HCL ACID & 14 B.S.(1.3 SG), FLUSH W/23 BBL 2% KCL WTR 6056-61
1	6024-32, 6000-16, 5976-91, 5940-46	ACIDIZE W/4000 GAL 7.5% FEHCL & 60 B.S.; FRAC W/ 44,400 GALS 40# CROSS LINKED GELLED 2% KCL WTR & 160,000# 20/40 SAND 5940-6032

TUBING RECORD Size 2-3/8 Set At 5914 Packer At _____ Liner Run Yes No

Date of First, Resumed Production, SWD or Inj. SI, WO PRODUCTION EQUIPMENT, WO PIPELINE _____ Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours Oil -- Bbls. Gas 170 Mcf Water 5 BF/HR Gas-Oil Ratio _____ Gravity _____

Disposition of Gas: * METHOD OF COMPLETION Production Interval
 Vented Sold Used on Lease Open Hole Perf. Dually Comp. Commingled 5940-6032 OA
 (If vented, submit ACO-18.) Other (Specify) _____
 *TO BE SOLD

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CONFIDENTIAL

ORIGINAL

ATTACHMENT

API # 15-189-21777

HIGGINS "A" NO. 1
SECTION 7-33S-37W
STEVENS COUNTY, KANSAS

FORMATION

TOP

RELEASED

B. STONE CORRAL	1712
CHASE	2480
COUNCIL GROVE	2791
ADMIRE	3056
WABAUNSEE	3235
TOPEKA	3508
HEEBNER	4044
TORONTO	4076
LANSING	4173
MARMATON	4846
CHEROKEE	5078
ATOKAN	5400
MORROW	5585
CHESTER	6078

MAR 14 1996

FROM CONFIDENTIAL

NSC

FEB 21

CONFIDENTIAL

RELEASED

ORIGINAL

CONFIDENTIAL

MAR 14 1996

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

WELL NAME: HIGGINS A-1
SECTION 7-33S-37W
STEVENS COUNTY, KANSAS
COMMENCED: OCTOBER 20, 1994
COMPLETED: OCTOBER 31, 1994
OPERATOR: ANADARKO PETROLEUM CORPORATION

NOV
FEB 21
CONFIDENTIAL

Depth		Formation	Remarks
From	To		
0	1138	Sand & Redbed	Ran 42 jts of 24#
1139	1330	Glorietta Sand	8 5/8" csg set @
1331	2435	Redbed & Shale	1705'; w/550 SX of
2436	6240	Lime & Shale	50/50 Pozmix; 4% Gel; 1/4# SX Flocele; Tailed w/200 SX Class H; 2% CC; 1/4# Sx Flocele; Plug down at 5:45 p.m. on 10/22/94.

Ran 143 jts 5 1/2" 15.5#, Set @ 6200'; w/50 SX 65/35
Pozmix; 6% Gel; 3/4% CFR-3; Tailed w/160 SX Class H;
5% EA-2; 10% Salt; 3/4% Halad 322; 1/4# SX Flocele;
Plug down at 11:15 a.m., on 10/31/94

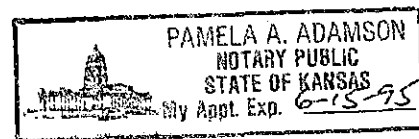
STATE OF KANSAS)I, the undersigned, being duly sworn on
oath, state that the above Drillers' Well
Log is true and correct to the best of my
knowledge and belief and according to the
records of this office.
COUNTY OF SEDGWICK

NORSEMAN DRILLING, INC.

James P. Reilly
JAMES P. REILLY, PRESIDENT

Subscribed & sworn to before me this

November 4, 1994



My Appointment Expires:

June 15, 1995

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

STATE CLERK OF THE DISTRICT COURT

FEB 28 1995

CONFIDENTIAL
WICHITA



JOB LOG HAL-2013-C

CUSTOMER Anadarko Pet WELL NO. A-1 LEASE Higgins JOB TYPE Surface TICKET NO. 635609

Table with columns: CHART NO., TIME, RATE (BPM), VOLUME (BBL) (GAL), PUMPS (T, C), PRESSURE (PSI) (TUBING, CASING), DESCRIPTION OF OPERATION AND MATERIALS. Includes handwritten entries like 'called out Ready now on location drilling', 'Pull drill pipe', 'START casing', 'Hook Iron To circulate', 'Safety meeting', 'Hook Iron To Truck', '0-150 Pump lead cmt 13.6 PPG', '150-200 Pump Tail cmt 16.4 PPG', 'shut down Drop Plug', '0-500 Pump Displacement', '500-800 Slow Rate', 'Plug landed Float Held'.

CONFIDENTIAL

RELEASED

MAR 14 1996

FROM CONFIDENTIAL FEB 21

CONFIDENTIAL

STATE CORPORATION COMMISSION

FEB 22 1995

CONSERVATION DIVISION WICHITA, KANSAS



JOB SUMMARY

HALLIBURTON DIVISION
HALLIBURTON LOCATION

Midcontinent
Liberal

BILLED ON TICKET NO. 635609

WELL DATA

FIELD _____ SEC. 7 TWP. 33S RING. 37W 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 _____

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	<u>N</u>	<u>24"</u>	<u>858</u>	<u>G-1</u>	<u>1705</u>	
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

ORIGINAL

JOB DATA

CALLLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>10-22-94</u>	DATE <u>10-22-94</u>	DATE <u>10-22-94</u>	DATE <u>10-22-94</u>
TIME <u>0600</u>	TIME <u>0845</u>	TIME <u>1640</u>	TIME <u>1800</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>Ron Crist</u> <u>07853</u>	<u>38242</u> <u>PIU</u>	<u>Liberal</u>
<u>Rene Martinez</u> <u>G2731</u>	<u>75496</u>	<u>''</u>
<u>Pat Boone</u> <u>G9614</u>	<u>75505</u> <u>Bulk</u>	<u>Hugoton</u>
<u>Jeff Frost</u> <u>G9725</u>	<u>75817</u> <u>Bulk</u>	<u>''</u>

MAR 14 1996

FROM CONFIDENTIAL

DEPARTMENT Cement
DESCRIPTION OF JOB Cement Surface Casing

JOB DONE THRU: TUBING CASING ANNULUS TBG/ANN.

CUSTOMER REPRESENTATIVE X Ronald Crist

HALLIBURTON OPERATOR Ronald Crist COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<u>550</u>	<u>50/50 P02</u>		<u>B</u>	<u>4% Tetra/Gel, 1/4" #16 Flocc 2% CC</u>	<u>1.44</u>	<u>13.6</u>
	<u>200</u>	<u>H</u>		<u>B</u>	<u>2% CC</u>	<u>1.06</u>	<u>16.4</u>

PRESSURES IN PSI

SUMMARY

VOLUMES

CIRCULATING _____ DISPLACEMENT _____ PRESLUSH: BBL.-GAL. _____ TYPE _____
BREAKDOWN _____ MAXIMUM _____ LOAD & BKDN: BBL.-GAL. _____ PAD: BBL.-GAL. _____
AVERAGE _____ FRACTURE GRADIENT _____ TREATMENT: BBL.-GAL. _____ DISPL: BBL.-GAL. 106
SHUT-IN: INSTANT _____ 5-MIN _____ 15-MIN. _____ CEMENT SLURRY: BBL.-GAL. 141 LC, 189C
HYDRAULIC HORSEPOWER _____ TOTAL VOLUME: BBL.-GAL. _____

ORDERED _____ AVAILABLE _____ USED _____
AVERAGE RATES IN BPM _____

TREATING _____ DISPL. _____ OVERALL _____
CEMENT LEFT IN PIPE _____

FEET _____ REASON _____

REMARKS

CUSTOMER Aradarko
LEASE Higgins
WELL NO. A-1
JOB TYPE Surface
DATE 10-22-94

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NOV

FEB 21

CONFIDENTIAL



CUSTOMER Anadarko Pct. WELL NO. A-1 LEASE Higgins JOB TYPE 035 5 1/2 TICKET NO. 635473

CHART NO. TIME RATE (BPM) VOLUME (BBL) (GAL) PUMPS T C PRESSURE (PSI) TUBING CASING DESCRIPTION OF OPERATION AND MATERIALS

22:00 Call out
01:00 ON hoc Rig on lay Down D.P.
05:00 run 5 1/2 CSC
08:45 TD CSC Hook-up Rig To CSC.
Cin Hole

CONFIDENTIAL

ORIGINAL

10:12 5 20 300 2% KCL H2O
" " 30 " Mud Flush
" " 20 " 2% KCL H2O
" 6 16.2 200 50 SK 65/35 Pzr H
10:47 " 40.7 250 160 SK Thixset H
" " " " Stop wash-up To Pit Drop Plug
10:49 7 180 250 Displ w H2O
" " 45 " "
" 5 80 180
" 2 130 830
11:08 2 146.8 800 Plug Down Plug Down 1500 P.S.
Release back Float Holding

RELEASED

KCC

FEB 14 1996

FEB 21

FROM CONFIDENTIAL

CONFIDENTIAL

Thank You Tim & Crew

WELL DATA
FIELD _____ SEC. 7 TWP. 33S RNG. 37W 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 Chem MUD WT. 8.9
PACKER TYPE _____ SET AT _____
BOTTOM HOLE TEMP. _____ PRESSURE _____
MISC. DATA _____ TOTAL DEPTH 6220

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	N	15.3	5 1/2	BL	6199	1500
LINER						
TUBING						
OPEN HOLE			7 3/8	SP	6220	SHOTS/FT.
PERFORATIONS				ORIGINAL		
PERFORATIONS						
PERFORATIONS						

JOB DATA

TOOLS AND ACCESSORIES

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

CALLLED OUT DATE	ON LOCATION DATE	JOB STARTED DATE	JOB COMPLETED DATE
10-31-94	10-31-94	10-31-94	10-31-94
TIME 22:00	TIME 01:00	TIME 10:12	TIME 11:30

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
T Bohannen 87748	40076 P.O.	Liberal Ks
N Tate 80568	62823 P.	"
J Boone 69614	4449 6612 B.	Hugoton Ks

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 _____

RELEASED
MAR 14 1996
FROM CONFIDENTIAL

DEPARTMENT 5001
DESCRIPTION OF JOB 035
JOB DONE THRU: TUBING CASING ANNULUS TBG/ANN.
CUSTOMER REPRESENTATIVE X Tim Bohannen
HALLIBURTON OPERATOR Tim Bohannen COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
1	50	6535 Poz	H	B	4 1/2 sk Floccul	1.83	13.7
2	160	Trix Set	H	B	8 1/2 sk Floccul 5 1/2 KCL	1.43	14.4

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 44 REASON Shoe ST

SUMMARY

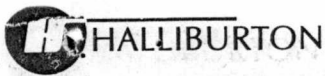
VOLUMES
PRESLUSH: BBL.-GAL. 20-30-20 TYPE 2 1/2 KCL H₂O Mud
LOAD & BKDN: BBL.-GAL. _____ PAD: BBL.-GAL. _____
TREATMENT: BBL.-GAL. _____ DISPL. BBL.-GAL. 146.8
CEMENT SLURRY: BBL.-GAL. 16.2 + 40.7
TOTAL VOLUME: BBL.-GAL. _____

REMARKS

CUSTOMER: Andaricks Pct.
LEASE: Higgins
WELL NO: A-1
JOB TYPE: 035
DATE: 10-31-94

Made in
 U.S.A.
 Stature to the extent

CUSTOMER		WELL NO.		LEASE		JOB TYPE		DESCRIPTION OF OPERATION AND MATERIALS	
Amundson PET		1-A		Higgins		Post collar			
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)			
				T	C	TUBING	CASING		
	0500								Called out on location safety meeting Rig up
									CONFIDENTIAL
									ORIGINAL
	0914				✓		2000		psi test casing
	0916								open tool
	0921	3	20	✓		800			Pump Thru tool with KCL water
	0930	3		✓		800			NO Circulation
	0936	3	20	✓		800			Pump mud flush
	0940	3	20	✓		800			Pump KCL water
	0944	3	32.7	✓		800			START Cement
	0947	3	11	✓		800			Displace cement
	0952								Close tool
	0954	1			✓		2000		psi test tool
	0958								Run 1 foot tubing
	1003	3.5			✓	900			Reverse out
	1010		25		✓	600			Circulated 1 bbl cement
									Job complete
									FEB 21
									CONFIDENTIAL
									Gave MSDS sheets to John Shilling
									RELEASED
									MAR 14 1996
									FROM CONFIDENTIAL



JOB SUMMARY

DIVISION UN 1114
HALLIBURTON LOCATION Liberal KS

BILLED ON TICKET NO. 70573

WELL DATA

FIELD Gentzen SEC 7 TWP. 22S RNG. 37W COUNTY Montion 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 _____

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	U	15.5	5.5	0		
LINER						
TUBING	U	4.7	2-3/8	0	3019	
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>12-17-94</u> TIME <u>0500</u>	DATE <u>12-17-94</u> TIME <u>0500</u>	DATE <u>12-17-94</u> TIME <u>0910</u>	DATE <u>12-17-94</u> TIME <u>1015</u>

TOOLS AND ACCESSORIES

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

CONFIDENTIAL

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>O Nicholas</u> <u>41525</u>	<u>40078</u>	<u>Liberal</u>
<u>H T. Jhon</u> <u>52623</u>	<u>4903</u> <u>7131</u>	<u>11</u>
<u>D Hamilton</u> <u>63090</u>	<u>4673</u> <u>4515</u>	<u>Hugoton</u>

ORIGINAL

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. _____
 PERFPAC BALLS TYPE _____ QTY. _____
 OTHER _____
 OTHER _____

RELEASED

MAR 14 1996

FROM CONFIDENTIAL

DEPARTMENT Cement
 DESCRIPTION OF JOB Cement Port Collar

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

CUSTOMER REPRESENTATIVE X J. L. Stoeck

HALLIBURTON OPERATOR O. Nicholas COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<u>100</u>	<u>P. m. L. T.</u>			<u>none</u>	<u>184</u>	<u>12.7</u>
					<u>FEB 21</u>		
					<u>CONCRETE</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

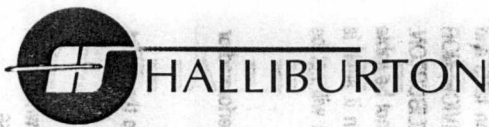
PRESLUSH: BBL.-GAL. 20 KCK TYPE 20 multi
 LOAD & BKDN: BBL.-GAL. 20 KCK PAD: BBL.-GAL. _____
 TREATMENT: BBL.-GAL. _____ DISPL: BBL.-GAL. 71
 CEMENT SLURRY: BBL.-GAL. 32.7
 TOTAL VOLUME: BBL.-GAL. _____
 REMARKS

REMARKS

No Circulation

CUSTOMER

LEASE Higgins
 WELL NO. 1-A
 JOB TYPE PORT COLLAR
 DATE 12-17-94



HALLIBURTON

HALLIBURTON ENERGY SERVICES

FORM 1906 R-13

CHARGE TO: Anadarko POT 1/25
 ADDRESS: _____
 CITY, STATE, ZIP CODE: _____

COPY

TICKET

WP

No.

705733 - 6

PAGE 1 OF 1

SERVICE LOCATIONS 1. <u>Liberal K5234</u>	WELL/PROJECT NO. <u>2553</u>	LEASE <u>Higgins</u>	COUNTY/PARISH <u>MONTGOMERY</u>	STATE <u>KS</u>	CITY/OFFSHORE LOCATION	DATE <u>12/7/94</u>	OWNER <u>SAR</u>
2. <u>Higgins 2553</u>	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	NITROGEN JOB? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	CONTRACTOR <u>Bestwell</u>	RIG NAME/NO. <u>2</u>	SHIPPED VIA <u>Truck</u>	DELIVERED TO <u>Location</u>	ORDER NO.
3.	WELL TYPE <u>01</u>	WELL CATEGORY <u>02</u>	JOB PURPOSE <u>035</u>	WELL PERMIT NO.	WELL LOCATION <u>7-335-37</u>		
4.	REFERRAL LOCATION	INVOICE INSTRUCTIONS					

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
000117					MILEAGE	70	mi			1.25	192.50
009-019					Pump Charge	3019	ft				1509.00
018315					mid flow	540	gal			1.00	540.00
CONFIDENTIAL ORIGINAL FEB 21 1996 RELEASED 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: X

DATE SIGNED: 12/7-94 TIME SIGNED: 0900 A.M. P.M.

do 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			AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL 2328
TYPE LOCK	DEPTH	OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?	<input checked="" type="checkbox"/>				FROM CONTINUATION PAGE(S) 1171	
BEAN SIZE	SPACERS	WE UNDERSTOOD AND MET YOUR NEEDS?	<input checked="" type="checkbox"/>					SUB-TOTAL 3499
TYPE OF EQUALIZING SUB.	CASING PRESSURE	OUR SERVICE WAS PERFORMED WITHOUT DELAY?	<input checked="" type="checkbox"/>				APPLICABLE TAXES WILL BE ADDED ON INVOICE	
TUBING SIZE	TUBING PRESSURE	WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?	<input checked="" type="checkbox"/>					
TREE CONNECTION	TYPE VALVE	ARE YOU SATISFIED WITH OUR SERVICE?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO				
		<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)	CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE)	HALLIBURTON OPERATOR/ENGINEER	EMP #	HALLIBURTON APPROVAL
<u>X</u>	<u>[Signature]</u>	<u>[Signature]</u>	<u>4035</u>	

CUSTOMER AEC	WELL Higgins	DATE 12-17-94	PAGE 17	OF 94
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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							
504-118					Halliburton Light Cement	100	sk			9.61	961.00
504-043	516.00272					65	sk				
506-105	516.00286					2590	LB				
506-121	516.00259					5	sk				
<p>CONFIDENTIAL</p> <p>RELEASED</p> <p>MAR 14 1996</p> <p>FROM CONFIDENTIAL</p> <p>ORIGINAL</p> <p>FEB 21</p> <p>CONFIDENTIAL</p>											
500-207					SERVICE CHARGE						
500-306					MILEAGE CHARGE	TOTAL WEIGHT	9,222	LOADED MILES	3	CUBIC FEET	100
										1.35	135.00
										95	75.00
										13.83	

No. B 263314

CONTINUATION TOTAL	1171.00
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