

ORIGINAL

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

Operator: License # 3180
Name: Deutsch Oil Company
Address 107 North Market - Suite 1115
City/State/zip Wichita, Kansas 67202
Purchaser: KN ENERGY
Operator Contact Person: Kent Deutsch
Phone (316) 267-7551
Contractor: Name: Duke Drilling Co., Inc.
License: 5929
Wellsite Geologist: Bruce Becker
Designate Type of Completion
 New Well Re-Entry Workover
 Oil SWD S10W 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 PBDT
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Inj?) Docket No. _____
05-16-95 05-22-95 05-22-95
Spud Date Date Reached TD Completion Date

API NO. 15- 145-21426 0000
County Pawnee County, Kansas
SE - SE - NE - Sec. 19 Twp. 23S Rge. 16 XX ^E
2970 Feet from Q/N (circle one) Line of Section
330 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 Christoph Well # 1-19
Field Name _____
Producing Formation MISSISSIPPI/CONGLOMERATE
Elevation: Ground 2050 KB _____
Total Depth 4270 PBDT _____
Amount of Surface Pipe Set and Cemented at 259' 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.

Drilling Fluid Management Plan ALT 1 JH 1-10-96
(Data must be collected from the Reserve Pit)
Chloride content 58,000 ppm Fluid volume 240 bbls
Deaerating method used TRUCK
Location of fluid disposal if hauled offsite: _____
Operator Name BULLSEYE ROUSTABOUT SERVICE
Lease Name CLARK License No. 31056
NW Quarter Sec. 10 Twp. 26 S Rng. 12 S/W
County PRATT Docket No. D-21,405

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 confidentially 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 Kent Deutsch
Title OWNER Date 8/1/95
Subscribed and sworn to before me this 1st day of August
19 95
Notary Public Doraine V. Star
Date Commission Expires 10-1-97

K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Geologist Report Received
RECEIVED
KANSAS CORPORATION COMMISSION
Distribution
 KGS SWD/Rep NGPA
 Plug Other
(Specify)
AUG 02 1995
8-2-95

SIDE TWO

Operator Name Deutsch Oil Company

Lease Name Christoph

Well # 1-19

Sec. 19 Twp. 23S Rge. 16

East

County Pawnee County, Kansas

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 checked="" type="checkbox"/> Log	Formation (Top), Depth and Dates	<input 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	HEEBNER	3570	-1499
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	BROWN LIME	3688	-1617
List All E.Logs Run:		LANSING	3698	-1627
		BASE K.C.	3968	-1897
		CONGLOMERATE	4086	-2015
		MISSISSIPPI	4113	-2042

CASING RECORD <input 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 1/2"	8-5/8"	24#	259'	60/40 Poz	180	3%cc 2%gel
Production	7-7/8"	5-1/2"	14#	4252'	60/40 Poz	375	2%gel

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	Acid, Fracture, Shot, Cement Squeeze Record
	Specify Footage of Each Interval Perforated	(Amount and Kind of Material Used) Depth
4	4158 - 4170	500 gals. 15% mca
1	4114 - 4156	FRAC. 51,000 # 12/20 SAND

TUBING RECORD	Size <u>2 3/8"</u>	Set At <u>4121 Ft.</u>	Packer At <u>NONE</u>	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Inj.	Producing Method <input checked="" type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)			
<u>WAITING ON GAS PIPELINE</u>				
Estimated Production Per 24 Hours	Oil <u>-0-</u> Bbls.	Gas <u>1946</u> Mcf	Water <u>0</u> Bbls.	Gas-Oil Ratio <u>0</u> Gravity

Disposition of Gas:	METHOD OF COMPLETION			Production Interval
<input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease (If vented, submit ACO-18.)	<input type="checkbox"/> Open Hole	<input checked="" type="checkbox"/> Perf.	<input type="checkbox"/> Dually Comp.	<input checked="" type="checkbox"/> Commingled
	<input type="checkbox"/> Other (Specify)			<u>4114-4130</u>

ORIGINAL

DST REPORT

GENERAL INFORMATION

DATE : 5-21-95
CUSTOMER : DEUTSCH OIL COMPANY
WELL : #1-19 TEST: 1
ELEVATION: 2050 GL
SECTION : 19
RANGE : 16W COUNTY: PAWNEE
GAUGE SN#: 1051 RANGE : 4250

API# 15-145-21426

TICKET : 21395
LEASE : CHRISTOPH
GEOLOGIST: BECKER
FORMATION: MISSISSIPPI
TOWNSHIP : 23S
STATE : KS
CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 4130.00 ft TO: 4180.00 ft TVD: 4180.0 ft
DEPTH OF SELECTIVE ZONE: TEST TYPE: GAS
DEPTH OF RECORDERS: 4133.0 ft 4136.0 ft
TEMPERATURE: 118.0

DRILL COLLAR LENGTH:	0.0 ft	I.D.:	0.000 in
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:	0.000 in
DRILL PIPE LENGTH :	4108.0 ft	I.D.:	3.800 in
TEST TOOL LENGTH :	22.0 ft	TOOL SIZE :	5.500 in
ANCHOR LENGTH :	50.0 ft	ANCHOR SIZE:	5.500 in
SURFACE CHOKE SIZE :	0.750 in	BOTTOM CHOKE SIZE:	0.750 in
MAIN HOLE SIZE :	7.875 in	TOOL JOINT SIZE :	4.5XH
PACKER DEPTH:	4125.0 ft	SIZE:	6.630 in
PACKER DEPTH:	4130.0 ft	SIZE:	6.630 in
PACKER DEPTH:	0.0 ft	SIZE:	0.000 in
PACKER DEPTH:	0.0 ft	SIZE:	0.000 in

MUD INFORMATION

DRILLING CON. :	DUKE DRLG #2	VISCOSITY :	47.00 cp
MUD TYPE :	CHEMICAL	WATER LOSS:	13.600 cc
WEIGHT :	9.600 ppg	SERIAL NUMBER:	
CHLORIDES :	4000 ppm	REVERSED OUT?:	NO
JARS-MAKE :			
DID WELL FLOW?:	NO		

COMMENTS

Comment

INITIAL FLOW PERIOD-STRONG BLOW IN 1 MINUTE. GAS
TO SURFACE 30 MINUTES. FINAL FLOW PERIOD-GAS TO
SURFACE. SEE SHEET ATTACHED.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
60.0	0.0	7.0	0.0	93.0	GAS CUT MUD

RATE INFORMATION

OIL VOLUME:	0.0000 STB		TOTAL FLOW TIME:	75.0000 min.
GAS VOLUME:	0.3308 SCF		AVERAGE OIL RATE:	0.0000 STB/D
MUD VOLUME:	0.7827 STB		AVERAGE WATER RATE:	0.0000 STB/D
WATER VOLUME:	0.0000 STB			
TOTAL FLUID :	0.7827 STB			

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2134.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	53.00	32.00
INITIAL SHUT-IN	60.00		1302.00
FINAL FLOW	45.00	53.00	32.00
FINAL SHUT-IN	90.00		1260.00

FINAL HYDROSTATIC PRESSURE: 2059.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2125.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	84.00	51.00
INITIAL SHUT-IN	63.00		1306.00
FINAL FLOW	45.00	86.00	45.00
FINAL SHUT-IN	90.00		1270.00

FINAL HYDROSTATIC PRESSURE: 2031.00

GAS FLOW REPORT

GENERAL INFORMATION

DATE : 5-21-95	TICKET : 21395
CUSTOMER : DEUTSCH OIL COMPANY	LEASE : CHRISTOPH
WELL : #1-19 TEST: 1	GEOLOGIST: BECKER
ELEVATION: 2050 GL	FORMATION: MISSISSIPPI
SECTION : 19	TOWNSHIP : 23S
RANGE : 16W COUNTY: PAWNEE	STATE : KS
GAUGE SN#: 1051 RANGE : 4250	CLOCK : 12

PRE FLOW

Time Guage (min)	Tester Type	Orifice Size	Pressure	Flow Desc.
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SECOND FLOW

Time Guage (min)	Tester Type	Orifice Size	Pressure	Flow Desc.
10 MIN	MERLA	0.500	6 PSIG	86300 SCF/D
20 MIN	MERLA	0.500	3 PSIG	59200 SCF/D
30 MIN	MERLA	0.500	3 PSIG	59200 SCF/D
40 MIN	MERLA	0.500	3 PSIG	59200 SCF/D
45 MIN	MERLA	0.500	3 PSIG	59200 SCF/D

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 5-21-95	TICKET : 21395
CUSTOMER : DEUTSCH OIL COMPANY	LEASE : CHRISTOPH
WELL : #1-19 TEST: 1	GEOLOGIST: BECKER
ELEVATION: 2050 GL	FORMATION: MISSISSIPPI
SECTION : 19	TOWNSHIP : 23S
RANGE : 16W COUNTY: PAWNEE	STATE : KS
GAUGE SN#: 1051 RANGE : 4250	CLOCK : 12

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	84.00	84.00
5.00	70.00	-14.00
10.00	62.00	-8.00
15.00	57.00	-5.00
20.00	55.00	-2.00
25.00	53.00	-2.00
30.00	51.00	-2.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	204.00	204.00	0.00
6.00	411.00	207.00	0.00
9.00	586.00	175.00	0.00
12.00	727.00	141.00	0.00
15.00	871.00	144.00	0.00
18.00	995.00	124.00	0.00
21.00	1068.00	73.00	0.00
24.00	1128.00	60.00	0.00
27.00	1171.00	43.00	0.00
30.00	1201.00	30.00	0.00
33.00	1224.00	23.00	0.00
36.00	1238.00	14.00	0.00
39.00	1256.00	18.00	0.00
42.00	1268.00	12.00	0.00
45.00	1275.00	7.00	0.00
48.00	1284.00	9.00	0.00
51.00	1292.00	8.00	0.00
54.00	1296.00	4.00	0.00
57.00	1299.00	3.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

INITIAL SHUT IN (CONTINUED)

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
60.00	1302.00	3.00	0.00
63.00	1306.00	4.00	0.00

FINAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	86.00	86.00
5.00	67.00	-19.00
10.00	60.00	-7.00
15.00	57.00	-3.00
20.00	55.00	-2.00
25.00	53.00	-2.00
30.00	51.00	-2.00
35.00	49.00	-2.00
40.00	47.00	-2.00
45.00	45.00	-2.00

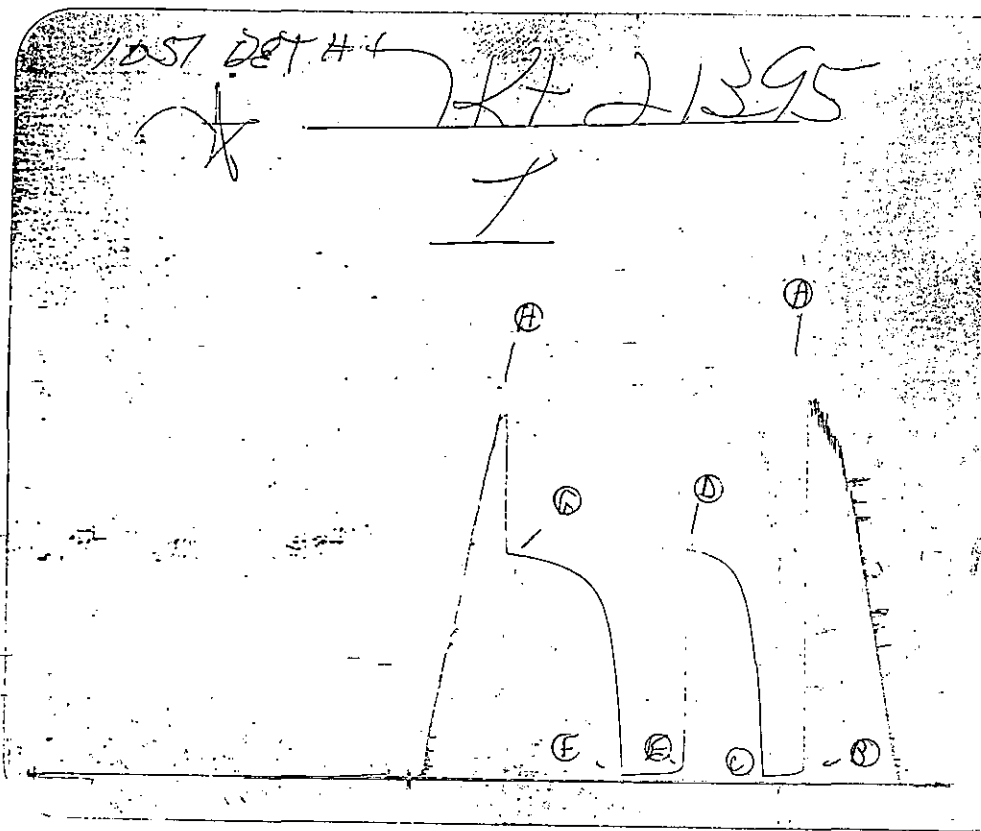
FINAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	188.00	188.00	0.00
6.00	390.00	202.00	0.00
9.00	557.00	167.00	0.00
12.00	712.00	155.00	0.00
15.00	849.00	137.00	0.00
18.00	942.00	93.00	0.00
21.00	1013.00	71.00	0.00
24.00	1051.00	38.00	0.00
27.00	1082.00	31.00	0.00
30.00	1112.00	30.00	0.00
33.00	1133.00	21.00	0.00
36.00	1149.00	16.00	0.00
39.00	1164.00	15.00	0.00
42.00	1175.00	11.00	0.00
45.00	1186.00	11.00	0.00
48.00	1197.00	11.00	0.00
51.00	1207.00	10.00	0.00
54.00	1217.00	10.00	0.00

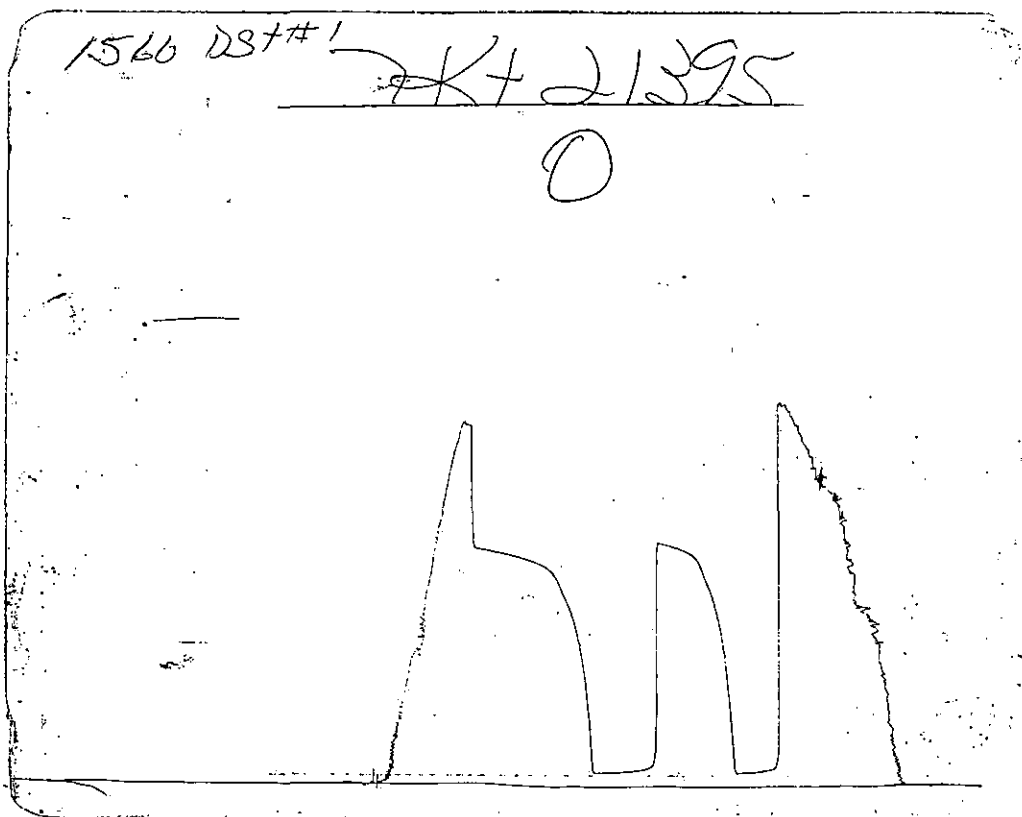
PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL SHUT IN (CONTINUED)

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
57.00	1221.00	4.00	0.00
60.00	1229.00	8.00	0.00
63.00	1237.00	8.00	0.00
66.00	1243.00	6.00	0.00
69.00	1248.00	5.00	0.00
72.00	1252.00	4.00	0.00
75.00	1255.00	3.00	0.00
78.00	1258.00	3.00	0.00
81.00	1261.00	3.00	0.00
84.00	1264.00	3.00	0.00
87.00	1267.00	3.00	0.00
90.00	1270.00	3.00	0.00



Inside Recorder



Outside Recorder

ALLIED CEMENTING CO., INC. 1708

REMIT TO: P.O. BOX 31
RUSSELL, KANSAS 67665

ORIGINAL

SERVICE POINT: Great Bend

DATE <u>5-16-95</u>	SEC. <u>19</u>	TWP. <u>23</u>	RANGE <u>16</u>	CALLED OUT <u>2:00 P.M.</u>	ON LOCATION <u>4:30 P.M.</u>	JOB START <u>5:00 P.M.</u>	JOB FINISH <u>5:30 P.M.</u>
LEASE <u>Christoph</u>		WELL # <u>1-19</u>		LOCATION <u>Lained 115-1W</u>		COUNTY <u>Pawnee</u>	STATE <u>KS</u>

OLD OR NEW (Circle one)

CONTRACTOR Duke

TYPE OF JOB Surface

HOLE SIZE 12 1/2" T.D. 259

CASING SIZE 8 1/2" 24" DEPTH 259

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. 15'

PERFS. _____ 15.54 BBI displacement

OWNER Deutsh Oil Co.

CEMENT

AMOUNT ORDERED 18060/40223

EQUIPMENT

PUMP TRUCK CEMENTER Mike

186 HELPER Don

BULK TRUCK _____

222 DRIVER Bill

BULK TRUCK _____

_____ DRIVER _____

COMMON _____ @ _____

POZMIX _____ @ _____

GEL _____ @ _____

CHLORIDE _____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

HANDLING _____ @ _____

MILEAGE _____ @ _____

TOTAL _____

REMARKS:

Ran to top of 8 1/2" 24" casing - broke
casing with rig. Mixed 18060/40223
with fresh H₂O. Displaced with 15'
BBI fresh H₂O cement did complete

Thank you
Allied Cementing
Mike, Don, Bill

SERVICE

DEPTH OF JOB _____

PUMP TRUCK CHARGE _____

EXTRA FOOTAGE _____ @ _____

MILEAGE _____ @ _____

PLUG Two _____ @ _____

_____ @ _____

TOTAL _____

CHARGE TO: Duke Delling

STREET _____

CITY _____ STATE _____ ZIP _____

FLOAT EQUIPMENT

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

TOTAL _____

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.

SIGNATURE John J. Ambrose

TAX _____

TOTAL CHARGE _____

DISCOUNT _____ IF PAID IN 30-DAYS

RECEIVED
KANSAS CORPORATION COMMISSION
AUG 03 1995
CONSERVATION DIVISION
WICHITA, KS

ALLIED CEMENTING CO., INC.

P.O. BOX 31
RUSSELL, KS 67665

CEMENTING LOG

STAGE NO.

Date 5-16-95 District Great Bend Ticket No. 1708
 Company Deke Rig Deke
 Lease Christoph Well No. 1-19
 County Pawnee State _____
 Location _____ Field _____

CASING DATA: PTA Squeeze
 Surface Intermediate Production Liner
 Size 8 1/2" Type _____ Weight 21# Collar _____

Casing Depths: Top _____ Bottom _____

Drill Pipe: Size 4 1/2" Weight 16.60 Collars _____
 Open Hole: Size 12 1/4" T.D. 259 ft. P.B. to _____ ft.

CAPACITY FACTORS:

Casing: Bbls/Lin. ft. 0.637 Lin. ft./Bbl. 15.70
 Open Holes: Bbls/Lin. ft. 0.1458 Lin. ft./Bbl. 6.8599
 Drill Pipe: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Annulus: Bbls/Lin. ft. 0.0735 Lin. ft./Bbl. 13.6037
 Perforations: From _____ ft. to _____ ft. Amt. _____

CEMENT DATA:

Spacer Type: ORIGINAL
 Amt. _____ Sks Yield _____ ft³/sk Density _____ PPG _____

LEAD: Pump Time 60/40 203 hrs. Type _____
 Excess _____
 Amt. 180 Sks Yield 1.24 ft³/sk Density 14.8 PPG

TAIL: Pump Time _____ hrs. Type _____
 Excess _____
 Amt. _____ Sks Yield _____ ft³/sk Density _____ PPG

WATER: Lead _____ gals/sk Tail _____ gals/sk Total _____ Bbls.

Pump Trucks Used _____

Bulk Equip. _____

Float Equip: Manufacturer _____

Shoe: Type _____ Depth _____

Float: Type _____ Depth _____

Centralizers: Quantity _____ Plugs Top _____ Btm. _____

Stage Collars _____

Special Equip. _____

Disp. Fluid Type H₂O Amt. 15 1/2 Bbls. Weight 8.35 PPG

Mud Type Chemical Weight 9.6 PPG

COMPANY REPRESENTATIVE John P. Brunkster

CEMENTER Michael Maen

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS	
	AM/PM	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period		RATE Bbls Min.
4:30						Arrived on location - Hold Safety Meeting - Setup Water Spacer Cement Slugs H ₂ O Displacement Plug Land Cement did Circulate	
5:12		200 ^{ft}		580 ^{ft}	11 min		580 ^{ft}
5:13		150 ^{ft}		240 ^{ft}	9 1/2 min		240 ^{ft}
5:23		200 ^{ft}		753 ^{ft}	3 1/2 min		580 ^{ft}
5:30		150 ^{ft}					

RECEIVED
 KANSAS CORPORATION COMMISSION
 AUG 03 1995
 CONSERVATION DIVISION
 WICHITA, KS

ALLIED CEMENTING CO., INC. 1335

REMIT TO: P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT: med. lodge, ks

DATE <u>5-21-95</u>	SEC. <u>19</u>	TWP. <u>23S</u>	RANGE <u>16W</u>	CALLED OUT <u>11:00 P.M.</u>	ON LOCATION <u>4:30 A.M.</u>	JOB START <u>9:00 A.M.</u>	JOB FINISH <u>10:05 A.M.</u>
LEASE <u>Christoph</u>			WELL# <u>1-19</u>	LOCATION <u>Belpre, ks, 5/31-1W-1/2N</u>		COUNTY <u>Pawnee</u>	STATE <u>Ks.</u>

OLD OR NEW (Circle one)

CONTRACTOR Duke #2
 TYPE OF JOB Production Casing
 HOLE SIZE 7 7/8 TD. 4270
 CASING SIZE 5 1/2 DEPTH 4256
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE 4 1/2 DEPTH 4270
 TOOL _____ DEPTH _____
 PRES. MAX 1675 MINIMUM 300
 MEAS. LINE _____ SHOE JOINT 2'
 CEMENT LEFT IN CSG. _____
 PERFS. _____

OWNER Deutsch Oil Co.
CEMENT

AMOUNT ORDERED 250SKS 60/40/2% GEL
150SKS ASC w/ 5# Kol-Seal

COMMON _____ @ _____
 POZMIX _____ @ _____
 GEL _____ @ _____
 CHLORIDE _____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____
 HANDLING _____ @ _____
 MILEAGE _____ @ _____

EQUIPMENT

PUMP TRUCK CEMENTER Larry D.
 # 266 HELPER Fustin H.
 BULK TRUCK
 # 227 DRIVER Tim S.
 BULK TRUCK
 # 242 DRIVER John K.

TOTAL _____

REMARKS:

Pump 6 Bds Fresh H₂O; Plug Rathole
w/150SKS. Plug mouse-hole w/10SKS.
Cement w/ 225SKS 60/40/2% GEL. Followed
w/150SKS ASC w/ 5# Kol-seal per. SK.
Stop Pumps. Wash out Pump lines
Release Plug. Start Fresh H₂O
Displace. Bump Plug. Float Held

SERVICE

DEPTH OF JOB 4256'
 PUMP TRUCK CHARGE _____
 EXTRA FOOTAGE _____ @ _____
 MILEAGE _____ @ _____
 PLUG Rubber _____ @ _____
 _____ @ _____
 _____ @ _____

TOTAL _____

CHARGE TO: Deutsch Oil Co.
 STREET _____
 CITY _____ STATE _____ ZIP _____

FLOAT EQUIPMENT

Baker 5 1/2
Float shoe 1 @ _____
Centerizers 10 @ _____
Baskets 4 @ _____
 _____ @ _____
 _____ @ _____

TOTAL _____

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

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.

SIGNATURE John J. Ambrose

RECEIVED
KANSAS CORPORATION COMMISSION

AUG 03 1995

CONSERVATION DIVISION
WICHITA, KS

ALLIED CEMENTING CO., INC.

CEMENTING LOG

STAGE NO. 10

Date: 5-21-95 District: Med. Lodge Ticket No. 1335
 Company: Deutch Oil Co. Rig: DUKE #2
 Lease: Christoph Well No. 1-16
 County: Lawrence State: Ks.
 Location: Belpre, Ks. 5/8-1w-1/2-11 Field: 19-235-16w

CASING DATA: PTA Squeeze
 Surface Intermediate Production Liner
 Size: 5 1/2 Type: F-55 Weight: 14 Collar

Burst Collaspe
4270PSI 3120PSI
 Casing Depths: Top _____ Bottom _____

Drill Pipe: Size 4 1/2 Weight 16.60 Collars x-hole
 Open Hole: Size 7 7/8 T.D. 4270 ft. P.B. to _____ ft.

CAPACITY FACTORS:

Casing: Bbbls/Lin. ft. .0244 Lin. ft./Bbl. 40.98
 Open Holes: Bbbls/Lin. ft. .0602 Lin. ft./Bbl. 16.5993
 Drill Pipe: Bbbls/Lin. ft. .0142 Lin. ft./Bbl. 70.32
 Annulus: Bbbls/Lin. ft. .0309 Lin. ft./Bbl. 32.4065
 Bbbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Perforations: From _____ ft. to _____ ft. Amt. _____

CEMENT DATA:

Spacer Type: _____
 Amt. _____ Skys Yield _____ ft³/sk Density _____ PPG

LEAD: Pump Time _____ hrs. Type 60/110/2% Excess _____

Amt. 250 Skys Yield 1.26 ft³/sk Density 14.8 PPG

TAIL: Pump Time _____ hrs. Type CLASSA Excess _____

Amt. 150 Skys Yield 1.57 ft³/sk Density 14.5 PPG

WATER: Lead 5.6 gals/sk Tail 7.3 gals/sk Total 56 Bbbls

Pump Trucks Used 266 - Justin H.
 Bulk Equip. 227 - Tim
242 - John K.

Float Equip: Manufacturer Baker

Shoe: Type Float shoe Depth 4268'

Float: Type _____ Depth _____

Centralizers: Quantity 10 Plugs Top Rubber Btm. _____

Stage Collars _____

Special Equip. Baskets

Disp. Fluid Type Fresh H₂O Amt. 102 1/2 Bbbls. Weight 8.34 PPG

Mud Type Chemical Weight 9.2 PPG

COMPANY REPRESENTATIVE John Ambruster

CEMENTER Larry D.

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE (CASING)	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbbls Min.	
8:45	300					Pipe in Bottom, Circ. w/ Rig Pump
9:20	450		6	1	5	Pump 6 Bbbls Fresh H ₂ O, Stop Pump
9:21	50		2	1	2	Plug Rathole w/ <u>60/40/2%G-1</u>
9:22			1	1	2	Plug mousehole w/ <u>60/40/2%G-1</u>
9:31	550		51	9	6	Cement w/ <u>60/40/2%G-1</u> lead in. <u>1st</u> Tail
9:38	325		42	7	6	Cement w/ <u>60/40/2%G-1</u> CLASSA ASC w/ <u>5 1/2</u> V.I. SEAL per sk.
9:40	25		8	2	4	TAIL In. Stop Pumps
9:48	100		30	5	6	wash out Pump Lines
9:50	120		39	2	6	Release Plug
9:55	185		60	5	6	Start Fresh H ₂ O Displace
9:58	560		73	3	6	lead c. shoe
10:01	750		80	3	5	TAIL c. shoe, PSI Increase
10:06	1100		95	4	4	lift PSI
10:10	1675		102 1/2	4	2	Decrease rate, steady PSI Increase
						Decrease rate, Slight PSI Drop
						Rump Aug

RECEIVED
 KANSAS CORPORATION COMMISSION

AUG 03 1995

CONSERVATION DIVISION
 WICHITA, KS