

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

COPY

API NO. 15- 15-191-22219-00-00

County Sumner

SF/4sec. 3 Twp. 35S Rge. 1 X V

Operator: License # 30900

1320 Feet from Q/V (circle one) Line of Section

Name: DAR-LON Operating

990 Feet from Q/V (circle one) Line of Section

Address Box 158

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

Lamont, Oklahoma 74643

Well Name Hollingsworth Well # #1-3

City/State/Zip _____

RECEIVED
KCC DISTRICT #2

Purchaser: N/C

Field Name S. Haven

Operator Contact Person: Dan Darling

Producing Formation none

Phone (405) 388-4567

WICHITA, KS

Ground 1120 KB 1127

Contractor: Name: Mendenhall Drilling

Total Depth 4289 PSTD _____

License: 37073

Amount of Surface Pipe Set and Cemented at 301 Feet

Wellsite Geologist: Bill Hamilton

Multiple Stage Cementing Collar Used? Yes X No _____

Designate Type of Completion 2-2
X New Well _____ Re-Entry _____ Workover _____

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from _____

Oil _____ SWD _____ STOW _____ Temp. Abd. _____
Gas _____ EXHR _____ SIGW _____
X Dry _____ Other (Core, WSV, Expl., Cathodic _____)

feet depth to _____ w/ _____ SX CRT.

RECEIVED
STATE CORPORATION COMMISSION

If Workover/Re-Entry: old well info as follows:

Fluid Management Plan 2-24-93
(Data must be collected from the Reserve Pit)

Operator: _____

Chloride content 1300 ppm Fluid volume 3500 estbbls

Well Name: _____

RECEIVED
CONSERVATION DIVISION
Wichita, Kansas

Consolidating method used Evaporation

Comp. Date _____ Old Total Depth _____

Location of fluid disposal if hauled offsite: _____

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

Operator Name _____

Lease Name _____ License No. _____

11-5-92 11-14-92 P&A 11-15-92
Spud Date Date Reached TD Completion Date

Quarter Sec. Twp. S Rng. E/V

County _____ 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 reports shall be attached to 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 Dan Darling

Title Dan Darling-Owner-Operator Date 12-14-92

Subscribed and sworn to before me this 14th day of December 19 92.

Notary Public [Signature]

Date Commission Expires May 14, 1994

E.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C X Wireline Log Received
C X Geologist Report Received
Distribution
KCC _____ SWD/Rep _____ WGA
KCS _____ Plug _____ Other X
(Specify)

RECEIVED
CONSERVATION DIVISION
WICHITA, KS
DEC 19 1992

Operator Name DAR-LON Operating

Lease Name Hollingsworth Well # 1-3

Sec. 3 Twp. 35S Rge. 1 East West

County Sumner County

COPY

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. Logs Run:
Dual-Induction / Density Neutron/
Micro-Log/ Gamma Ray

Log Formation (Top), Depth and Datum Sample

Name	Top	Datum
Hebner	2406	-1279
Stalnaker	2807	-1680
Layton	3194	-2067
Kansas City	3380	-2253
Oswego	3558	-2431
Mississippi Chat	3922	-2795
Mississippi Lime	4018	-2891
Woodford	4194	-3067
Simpson	4263	-3136

CASING RECORD

New 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
Stalnaker	1 1/2	8 5/8	24	370	REG	200	3% KCL

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth		Type of Cement	#Sacks Used	Type and Percent Additives
	Top	Bottom			
<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	Acid, Fracture, Shot, Cement Squeeze Record
	Specify Footage of Each Interval Perforated	(Amount and Kind of Material Used) Depth

DEC 7 8 1992
CONSERVATION DIVISION
WICHITA, KS

TUBING RECORD Size Set At Packer At Liner Run Yes No

Date of First, Resumed Production, SWD or In). Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours Oil Bbls. Gas Mcf Water Bbls. Gas-Oil Ratio Gravity

Disposition of Gas:

METHOD OF COMPLETION

Production Interval

Vented Sold Used on Lease Open Hole Perf. Dually Comp. Commingled Other (Specify)

(If vented, submit ACO-18.)

Midcontinent Consultants, Inc.

401 West Sheridan, Suite 450
Oklahoma City, Oklahoma 73102
Telephone 405-236-0008

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GEOLOGICAL REPORT

Darling Oil Corporation

Hollingsworth No. 1-3

Section 3-T35S-R1W

Sumner County, Kansas

RECEIVED
KANSAS CORPORATION COMMISSION

DEC 18 1992

CONSERVATION DIVISION
WICHITA, KS

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WELL DATA

Operator: Darling Oil Corporation

Well Name and Number: Hollingsworth No. 1-3

Location: 1320'FSL & 990'FEL Section: 3 Township: 35S Range: 1W

County: Sumner State: Kansas

Elevation: GL 1120' DF 1126' KB 1127'

Commenced Drilling: 11/6/92

Completed Drilling: 11/14/92

Total Depth: Driller 4289' Logger 4285'

BIT RECORD

<u>Bit No.</u>	<u>Bit Size</u>	<u>Bit Type</u>	<u>From</u>	<u>To</u>
1	12 1/4"	OSW	0	320
2	7 7/8"	HP51X	320	4289

CASING RECORD

	<u>From</u>	<u>To</u>	<u>Size</u>	<u>Weight</u>	<u>Cement</u>
Surface	0	310	8 5/8"	24#	N/A

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SERVICES

GEOLOGIST

Bill Hamilton
Midcontinent Consultants, Inc.
401 West Sheridan, Suite 450
Oklahoma City, Oklahoma 73102
Telephone: 405-236-0008 620-7667 722-3920

DRILLING CONTRACTOR

Mendenhall Drilling Co.
Lamont, OK
405/388-7278
Toolpusher: Ron Mendenhall

MUD LOGGER

MUD

Steve's Mud
Enid, OK
Engineer: Steve Sheets

CEMENTING

Halliburton
Enid, OK

ELECTRICAL LOGGING

Schlumberger
Enid, OK
405/237-6144
Engineer: John Cadenhead

COPY

FORMATION TOPS

<u>Formation</u>	<u>Log</u>	<u>Subsea</u>	<u>Sample</u>	<u>Subsea</u>
Hebner	2406	-1279	2406	-1279
Stalnaker	2807	-1680	2806	-1679
Layton	3194	-2067	3186	-2059
Kansas City	3380	-2253	3380	-2253
Oswego	3558	-2431	3558	-2431
Mississippi Chat	3922	-2795	3920	-2793
Mississippi Lime	4018	-2891	4016	-2889
Woodford	4194	-3067	4198	-3171
Simpson	4263	-3136	4263	-3236

COPY

FORMATION TOPS

<u>Formation</u>	<u>Log</u>	<u>Subsea</u>	<u>Sample</u>	<u>Subsea</u>
Hebner	2406	-1279	2406	-1279
Stalnaker	2807	-1680	2806	-1679
Layton	3194	-2067	3186	-2059
Kansas City	3380	-2253	3380	-2253
Oswego	3558	-2431	3558	-2431
Mississippi Chat	3922	-2795	3920	-2793
Mississippi Lime	4018	-2891	4016	-2889
Woodford	4194	-3067	4198	-3171
Simpson	4263	-3136	4263	-3236

COPY

SAMPLE DESCRIPTIONS

Stalnaker 2807 (-1680) Sandstone, light grey to grey, very fine to fine grain, sub-round to sub-angular, poor to fair sorting, firm to soft, friable, argillaceous, no show.

Drillrate: 1 to 2 minutes per foot

Porosity: 15 to 24% Sw: 100%

Layton 3194 (-2067) Sandstone, light grey to off white to clear, very fine to fine grain, sub-round to sub-angular, poor to fair sorting, firm to unconsolidated, slightly argillaceous to argillaceous, no show.

Drillrate: 1 to 2 minutes per foot

Porosity: 8 to 18% Sw: 88 to 100%

Kansas City 3380 (-2253) Limestone, tan to buff to cream to brown, micro to fine crystalline, firm to hard, fossiliferous in part, slightly chalky, no show.

Drillrate: 4 to 5 minutes per foot

Porosity: 2 to 8% Sw: 66 to 100%

Oswego 3558 (-2431) Limestone, tan to cream to buff, micro crystalline, firm to hard, slightly chalky, no show.

Drillrate: 3 to 6 minutes per foot

Porosity: 2 to 7% Sw: 73 to 100%

Mississippi Chat 3922 (-2795) Chert, off white to tan to white, hard, tripolitic in part, vitreous in part, scattered yellow fluorescence, faint to poor cut, poor ring cut, scattered dark brown to tan stain, good odor.

Drillrate: 1 to 1 1/2 minutes per foot

Porosity: 16 to 32% Sw: 71 to 100%

Mississippi Lime 4018 (-2891) Limestone, brown to tan to cream, micro crystalline, firm to hard, dense in part, no show.

Drillrate: 3 to 8 minutes per foot

Porosity: 6 to 16% Sw: 45 to 100%

COPY

Simpson 4263 (-3136) Sandstone, clear, fine to medium grain, round to sub-round, fair to good sorting, unconsolidated to firm, calcareous in part, no show.

Drillrate: 2 1/2 to 6 minutes per foot

Porosity: 11 to 15% Sw: 100%

RECOMMENDATIONS AND CONCLUSIONS

It was recommended that the Hollingsworth No. 1-3 be plugged and abandon.

The Stalnaker sand had good porosity but had no show on the gas detector or in the samples. The electric logs indicate this formation is water bearing.

The Layton sand had a slight drilling break in the top with a good to fair show on the mud logging unit. A drillstem test was run and recovered 60' of drilling mud with no show. The pressures indicate this formation has low permeability. The electric logs show a zone of low porosity in the top and water bearing in the bottom.

Mississippi Chat had a good drilling break with a fair sample show and a fair to good show on the gas detector. A drillstem test was run and recovered 6' of drilling mud. The pressures indicate this formation has low permeability. The electric logs show this zone has low porosity and is shaley in the top grading into better porosity in the lower portion of the zone. A second chat zone had a good drilling break but had no show in the samples or on the gas detector.

The Simpson sand ran structurally low to the offset wells. There was a good drilling break in the top but the samples and mud logging unit had no show. The electric logs indicate this formation has good porosity but is water bearing.

DRILL-STEM TEST DATA

COMPANY Darling Oil Corp WELL Hollingsworth #1-3
LOCATION 1320 FSL, 990 FE SECTION 3 T 35S R 1W COUNTY Sumner STATE KS
DST NO. 1 FROM 3085 TO 95 DATE 11/10/92 ELEV. 1127'KB
FORMATION LAYTON TYPE TEST Conv. HOLE SIZE 7 7/8
SERVICE COMPANY HRS TESTER _____

CHOKE SIZE: TOP 1/4 BOTTOM 3/4
INITIAL OPEN 15 MIN. INITIAL SHUT IN 30 MIN.
FINAL OPEN 30 MIN. FINAL SHUT IN _____ MIN.

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SURFACE ACTION-INITIAL OPEN

1 MIN	<u>1" Blow - Pool</u>	<u>203</u>
2 MIN	<u>1" "</u>	<u>1 1/2 03</u>
3 MIN	<u>1" "</u>	<u>"</u>
4 MIN	<u>2" "</u>	<u>"</u>
5 MIN	<u>2" "</u>	<u>1 3/4 03</u>
10 MIN	<u>2" "</u>	<u>"</u>
15 MIN	<u>2" "</u>	<u>"</u>
20 MIN		
30 MIN		

SURFACE ACTION-FINAL OPEN

5 MIN	<u>1" Blow - Pool</u>
10 MIN	<u>" "</u>
15 MIN	<u>" "</u>
30 MIN	<u>" "</u>
45 MIN	
60 MIN	
75 MIN	
90 MIN	
120 MIN	

MUD TO SURFACE _____ IN _____ MIN WATER BLANKET TO SURFACE _____ IN _____ MIN

GAS TO SURFACE _____ ON _____ CHOKE IN _____ MIN AT _____ MCF/D

OIL TO SURFACE _____ ON _____ CHOKE IN _____ MIN AT _____ B/D

SURFACE FLOWING PRESSURE: INITIAL FLOW (GAS OR OIL) _____
FINAL FLOW (GAS OR OIL) _____

WATER BLANKET USED IN TEST 0 FT

TEST RECOVERED BY: PULL WET STRING ✓

REVERSE OUT FROM TEST DEPTH _____

PULL STRING TO FLUID AND REVERSE OUT _____

DRILL-STEM TEST DATA

COPY

LENGTH OF DRILL COLLARS RUN: ABOVE _____ FT BELOW _____ FT
 I.D. OF DRILL COLLARS _____ IN I.D. OF DRILL PIPE _____ IN
 TYPE OF DRILL PIPE 4 1/2 KH DEPTH OF SHUT-IN TOOL _____ FT
 MUD WT 912 PPM CHLORIDE: MUD _____ TEST 8300
 BHT 110 F RW _____ @ _____ F OIL GRAVITY _____ °API @ _____ F
 RECOVERY: FLUID (FT) OR (BBL): WATER BLANKET _____ MUD 60'

GCM _____ OCM _____
 O&GCM _____ OIL _____
 FW _____ GAS _____
 SGCFW _____ SOCFW _____
 GCFW _____ OCFW _____
 OTHER _____

SAMPLER RUN _____ RECOVERY: GAS _____ CU.FT OIL _____ CC
 FORMATION WATER _____ CC SAMPLE PRESSURE _____ PSI
 OIL _____ °API CORR. 60°F GOR _____ CL _____ PPM

PRESSURE INFORMATION:

UPPER RECORDER 3163 FT (INSIDE)(OUTSIDE) WITH _____ HR CLOCK
 IHMP 1522 PSI FFP 31/41 PSI
 IFP 27/27 PSI FSIP 1224 PSI
 ISIP 1255 PSI FHMP 1512 PSI

LOWER RECORDER 3192 FT (INSIDE)(OUTSIDE) WITH _____ HR CLOCK
 IHMP 1522 PSI FFP 62/83 PSI
 IFP 41/93 PSI FSIP 1224 PSI
 ISIP 1255 PSI FHMP 1501 PSI

INITIAL SHUT-IN CURVE LEVELED OUT (~~YES~~)(NO)

FINAL FLOW PERIOD (~~STRAIGHT~~) OR (CURVED) LINE.

FINAL SHUT-IN CURVE LEVELED OUT (~~YES~~)(NO)

ADDITIONAL INFORMATION _____

TEST WITNESSED BY: Bill Hamilton & Dan Darling

DRILL-STEM TEST DATA

COMPANY Darling Oil Corp WELL Hollingsworth #1-3
LOCATION _____ SECTION 3 T355 R 3W COUNTY Sumner STATE KS
DST NO. 2 FROM 3920 TO 30 DATE 11/13/92 ELEV. 1127 KB
FORMATION Miss Chat TYPE TEST Conn HOLE SIZE 7 7/8
SERVICE COMPANY HRS TESTER T. Horn

CHOKE SIZE: TOP 1/4 BOTTOM 3/4
INITIAL OPEN 15 MIN. INITIAL SHUT IN 60 MIN.
FINAL OPEN 30 MIN. FINAL SHUT IN 60 MIN.

COPY

SURFACE ACTION-INITIAL OPEN

1 MIN	<u>1" Blow - Poor</u>			
2 MIN	<u>1" "</u>	<u>-</u>	<u>"</u>	
3 MIN	<u>1" "</u>		<u>"</u>	
4 MIN	<u>1" "</u>		<u>"</u>	
5 MIN	<u>1" "</u>		<u>"</u>	<u>103</u>
10 MIN	<u>1" "</u>		<u>"</u>	<u>"</u>
15 MIN	<u>1" "</u>		<u>"</u>	<u>"</u>
20 MIN				
30 MIN				

SURFACE ACTION-FINAL OPEN

5 MIN	<u>1" - Blow - Poor</u>			<u>103</u>
10 MIN	<u>1" "</u>	<u>-</u>	<u>"</u>	<u>"</u>
15 MIN	<u>1" "</u>	<u>-</u>	<u>"</u>	<u>"</u>
30 MIN	<u>1" "</u>	<u>-</u>	<u>"</u>	<u>"</u>
45 MIN				
60 MIN				
75 MIN				
90 MIN				
120 MIN				

MUD TO SURFACE _____ IN _____ MIN WATER BLANKET TO SURFACE _____ IN _____ MIN

GAS TO SURFACE _____ ON _____ CHOKES IN _____ MIN AT _____ MCF/D

OIL TO SURFACE _____ ON _____ CHOKES IN _____ MIN AT _____ B/D

SURFACE FLOWING PRESSURE: INITIAL FLOW (GAS OR OIL) _____
FINAL FLOW (GAS OR OIL) _____

WATER BLANKET USED IN TEST 0 FT

TEST RECOVERED BY: PULL WET STRING

REVERSE OUT FROM TEST DEPTH _____

PULL STRING TO FLUID AND REVERSE OUT _____

DRILL-STEM TEST DATA

COPY

LENGTH OF DRILL COLLARS RUN: ABOVE _____ FT BELOW _____ FT
I.D. OF DRILL COLLARS _____ IN I.D. OF DRILL PIPE _____ IN
TYPE OF DRILL PIPE _____ DEPTH OF SHUT-IN TOOL _____ FT
MUD WT 9.6 PPM CHLORIDE: MUD 4000 TEST _____

BHT _____ F R_w _____ @ _____ F OIL GRAVITY _____ °API @ _____ F
RECOVERY: FLUID (FT) OR (BBL): WATER BLANKET _____ MUD _____
GCM _____ OCM _____
O&GCM _____ OIL _____
FW _____ GAS _____
SGCFW _____ SOCFW _____
GCFW _____ OCFW _____
OTHER _____

SAMPLER RUN _____ RECOVERY: GAS _____ CU.FT OIL _____ CC
FORMATION WATER _____ CC SAMPLE PRESSURE _____ PSI
OIL _____ °API CORR. 60°F GOR _____ CL _____ PPM

PRESSURE INFORMATION:

UPPER RECORDER 3900 FT (INSIDE)(OUTSIDE) WITH 3002 HR CLOCK

IHMP 1912 PSI FFP 10/10 PSI

IFP 10/10 PSI FSIP 1080 PSI

ISIP 330 PSI FHMP 1891 PSI

LOWER RECORDER _____ FT (INSIDE)(OUTSIDE) WITH _____ HR CLOCK

IHMP 1932 PSI FFP 31/31 PSI

IFP 31/31 PSI FSIP 1080 PSI

ISIP 331 PSI FHMP 1912 PSI

INITIAL SHUT-IN CURVE LEVELED OUT (YES)(NO)

FINAL FLOW PERIOD (STRAIGHT) OR (CURVED) LINE.

FINAL SHUT-IN CURVE LEVELED OUT (YES)(NO)

ADDITIONAL INFORMATION Low Perm

TEST WITNESSED BY: Bill Hamilton & Dan Darling

COPY

Midcontinent Consultants, Inc.

COMPANY
WELL
LOCATION
COUNTY

Darling Oil Corp
Hollingsworth #1-3
^{1920 FSL}
^{1900 FSL} SECTION 3 TOWNSHIP 35S
Sumner

DATE 11/8/92
GEOLOGIST Hamilton
RANGE 1W
STATE KANSAS

DEPTH	FORMATION DESCRIPTION					POROSITY		SHOW		
	SH	SD	LM	DOL	CHT	TYPE	% FLUO	CUT	STN	
1500										
30	80	20	T			IG	p	NS		
60	✓	✓	✓			✓	✓			
90	100	T	✓			✓	✓			
1620	90	10	✓			✓	✓			
50	80	✓	10			EX	H			
80	100	T	T							
1710	✓	✓	✓							
40	✓	✓	✓							
70	80	T	20			IX	H			
1800	✓	✓	✓			✓	✓			
30	90	✓	10			✓	✓			
60	70	✓	30			✓	✓			
90	90	✓	10			✓	✓			
1920	80	✓	20			✓	✓			
50	✓	✓	✓			✓	✓			
80	✓	✓	✓			✓	✓			
2010	90	✓	10			✓	✓			
20	80	10	✓			✓	✓	NS		
30	90	T	10			✓	✓	1		
40	80	✓	20			✓	✓	dull grey mud	no	
50	70	10	✓			✓	✓		✓	
60	70	T	80			EX	H-p	dull grey mud	no	
70	90	✓	10			✓	✓	✓	✓	
80	30	✓	70			✓	✓	✓	✓	
90	✓	✓	✓			✓	✓	✓	✓	
2100	90	✓	10			✓	✓	✓	✓	

COPY

Midcontinent Consultants, Inc.

COMPANY
WELL
LOCATION
COUNTY

Darling Oil Corp
Hollingsworth #1-3
SECTION 3 TOWNSHIP 35S
Sumner

DATE 11/9/92
GEOLOGIST Hamilton
RANGE 1W
STATE KANSAS

DEPTH	FORMATION DESCRIPTION					POROSITY TYPE	SHOW		
	SH	SD	LM	DOL	CHT		% FLUO	CUT	STN
10	80	T	20			IX H	92-98		
20	60	✓	40			✓	42		
30	✓	✓	✓			✓			
40	80	✓	50			✓			
50	90	✓	10			✓			
60	80	✓	20			✓			
70	90	✓	10			✓			
80	✓	✓	✓			✓			
90	✓	✓	✓			✓			
250	✓	✓	✓			✓	NS		
10	100	T	T				✓		
20	90	✓	10						
30	80	✓	20						
40	70	✓	30						
50	80	✓	20						
60	100	T	T						
70	✓	✓	✓						
80	✓	✓	✓						
90	90	10	T			IC P	NS		
2600	100	T	✓						
10	✓	✓	✓						
20	✓	✓	✓						
30	✓	✓	✓						
40	90	✓	10			IX H			
50	80	✓	20			✓			
60	100	T	T						
70	✓	✓	✓						
80	✓	✓	✓						
90	✓	✓	✓						
2700	✓	✓	✓						

COPY

Midcontinent Consultants, Inc.

COMPANY

Darling Oil Corp

DATE

11/9/92

WELL

Hollingsworth #1-3

GEOLOGIST

Hamilton

LOCATION

SECTION 3

TOWNSHIP 35S

RANGE 1W

COUNTY

Sumner

STATE

KANSAS

DEPTH	FORMATION DESCRIPTION					POROSITY		SHOW	
	SH	SD	LM	DOL	CHT	TYPE	% FLUO	CUT	STN
2100									
10	70	T	30			IX H			drill 4 1/2 min
20									
30	80		20						
40	90		10						
50	80		20						
60	90		10						
70									
80	80		20						
90									
2200									
10	80	T	20						
20	90		10						
30	80		20						
40	40	T	60						15
50	80		20						
60	100		T						
70									
80									
90									
2300									
10									
20									
30									
40	80	T	80			IX H			drill 4 1/2 min
50	30		70						
60	50		50						
70	40		60						
80	60		40						
90	50		50						
2400	40		60						

COPY

Midcontinent Consultants, Inc.

COMPANY Dee Darling Oil Corp. DATE 4/9/92
 WELL Hollingsworth #1-3 GEOLOGIST Hamilton
 LOCATION SECTION 3 TOWNSHIP 35S RANGE 11N
 COUNTY Sumner STATE KANSAS

DEPTH	FORMATION DESCRIPTION					POROSITY TYPE	% FLUO	SHOW CUT	STN
	SH	SD	LM	DOL	CHT				
2700									
10	100	T	T				NS		
20	✓	✓	✓						
30	✓	✓	✓						
40	✓	✓	✓						
50	✓	✓	✓						
60	✓	✓	✓						
70	100	✓	40			FX H			
80	70	✓	30			✓			
90	100	30	10			FX P			
2800	100	T	T				NS		
10	70	30	✓			✓			
20	100	40	✓			✓			
28	100	90				✓			
0" 10"	✓	✓				✓			
30	✓	✓				✓			
40	20	80				✓			
50	40	60				✓			
60	✓	✓				✓			
70	20	80				✓			
80	30	70				✓			
90	✓	✓				✓			
2900	40	60				✓			
10	10	90				✓	NS		
20	✓	✓				✓			
30	70	80				✓			
40	✓	✓				✓			
50	✓	✓				✓			
60	10	30	100			FX H			
70	20	70	10			✓			
80	80	10	✓			✓			
90	70	20	✓			✓			
3000	✓	✓	✓			✓			

COPY

Midcontinent Consultants, Inc.

COMPANY Darling Oil DATE 11/10/92
 WELL Hollingsworth #1-3 GEOLOGIST Hamilton
 LOCATION SECTION 3 TOWNSHIP 35S RANGE 11W
 COUNTY Sumner STATE KANSAS

DEPTH	FORMATION DESCRIPTION					POROSITY TYPE	SHOW		
	SH	SD	LM	DOL	CHT		% FLUO	CUT	STN
10	100	T	T						NS
20									}
30									
40									
50									
60									
70									
80									
90									
3100									
10									
20									
30	80	20						US	
40									
50	90	10							
60	100	40							
70	100	T							
80									
90									
95	90	10						US	
100									
105	60	40							
1200	90	10							

Bl gy-dk gy, sft
 fm, sily - f tex,
 splm in pt, blk

SHAAL SS, clay - clc
 vt to, SR-SA, f sly,
 fm - uncons, Arg in p

SHAAL SS, clc, vt to,
 SR-SA, f sly, uncons,

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Midcontinent Consultants, Inc.

COMPANY Darling Oil Corp DATE 11/11/92
 WELL Hollingsworth #1-3 GEOLOGIST Hamilton
 LOCATION SECTION 3 TOWNSHIP 35S RANGE 1W
 COUNTY SUMNER STATE KANSAS

DEPTH	FORMATION DESCRIPTION					POROSITY TYPE	SHOW				
	SH	SD	LM	DOL	CHT		% FLUO	CUT	STN		
3200	90	10	T			Sh, dkgy - gr, sft - tan	IX	P	NS		
20	70	30	✓			Slt - ftx, blk SS,	✓	✓	}		
30	40	60	✓			ltgy, w/ ftx, SL-SA, P.	✓	✓			
40	30	70	✓			Pent, fm, fri - uncarb.	✓	✓			
50	20	80	✓			Arg - sl. Arg	✓	✓			
60	✓	✓	✓			✓	✓	✓			
70	10	90	✓			✓	✓	✓			
80	✓	✓	✓			✓	✓	✓			
90	✓	✓	✓			✓	✓	✓			
3300	✓	✓	✓			✓	✓	✓			
10	✓	✓	✓			ShAA SSAA	✓	✓		NS	
20	30	70	✓			✓	✓	✓	}		
30	80	20	✓			✓	✓	✓			
40	✓	✓	✓			✓	✓	✓			
50	✓	✓	✓			✓	✓	✓			
60	70	30	✓			✓	✓	✓			
70	✓	✓	✓			✓	✓	✓			
80	80	20	✓			✓	✓	✓			
90	90	10	✓			✓	✓	✓			
3400	✓	✓	✓			✓	✓	✓			
10	80	T	20			ShAA LS, fm - h -	IX	H-P		NS	
20	60	T	40			bf - cm, micro - f	✓	✓	}		
30	✓	✓	✓			xln, fm - h -	✓	✓			
40	80	✓	20			in pt, sl. chky in pt	✓	✓			
50	✓	✓	✓			sh, bk sft, carb	✓	✓			
60	✓	✓	✓			✓	✓	✓			
70	40	✓	60			ShAA LS, cm - bf -	IX	H		duel	NO
80	✓	✓	✓			fm, micro xln, fm -	✓	✓		min	✓
90	20	✓	70			hd, sl. chky	✓	✓		✓	✓
3500	10	✓	90			✓	✓	✓		✓	✓

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COMPANY
WELL
LOCATION
COUNTY

Darling Oil Corp
Hollingsworth #1-3
SECTION 3 TOWNSHIP 35S
Summer

DATE 1/10/92
GEOLOGIST Hamilton
RANGE 1W
STATE KANSAS

DEPTH	FORMATION DESCRIPTION					POROSITY TYPE	SHOW		
	SH	SD	LM	DOL	CHT		% FLUO	CUT	STN
3500-10	60		40			IX H	35%	NO-P	
20	70		30			✓	4% min	Residual	
30	100	30	10			IX P	✓		
40	10	90				✓	✓		
50	40	100	✓			✓	✓		
60	80	20	✓			✓	✓		
70	20	T	80			IX H	✓		
80	10	✓	90			✓	✓		
90	40	✓	60			✓	✓		
3600	20		50			✓	✓		
10	✓		✓			✓	✓		
20	100		40			✓	✓		
30	30		70			✓	✓		
40	10		90			✓	✓		
50	✓		✓			✓	✓		
60	✓		✓			✓	✓		
70	20		80			✓	✓		
80	✓		✓			✓	✓		
90	10		90			✓	✓		
3700	30		70			✓	✓		
10	40		100			✓	✓		
20	30		70			✓	✓		
30	70		30			✓	✓		
40	100		40			✓	✓		
50	40		100			✓	✓		
60	70		30			✓	✓		
70	80		20			✓	✓		
80	90		10			✓	✓		
90	✓		✓			✓	✓		
3800	✓		✓			✓	✓		

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COMPANY
WELL
LOCATION
COUNTY

Darling Oil Corp
Hollingsworth #1-3
SECTION 3 TOWNSHIP 35S
Sumner

DATE 11/12/92
GEOLOGIST HAM/HT
RANGE 1W
STATE KANSAS

DEPTH	FORMATION DESCRIPTION						POROSITY TYPE	SHOW				
	SH	SD	LM	DOL	CHT	% FLUO		CUT	STN			
3800-												
10	100	T	T			Ch, Hgy - dk gy - bk			NS			
20	90	✓	10			sft - tan, sily - f			}			
30	100	✓	T			tex, blk, splin imp						
40	✓	✓	✓			✓						
50	✓	✓	✓			✓						
60	✓	✓	✓			✓						
70	✓	✓	✓			✓						
80	✓	✓	✓			✓						
90	✓	✓	✓			✓						
3900	✓	✓	✓			✓						
10	100	✓	✓			Sh, Hgy, sft - tan						
20	✓	✓	✓			f tex, splin imp						
15" 25	100	T	T			sily imp						
30"	✓	✓	✓			✓						
45"	10				90	cht, tan - off wh	IG f-g	421	ent. pool	set	IT	
60"	✓				✓	tan - vit, hd, good	✓	✓	✓	✓	✓	
30	✓				✓	odor	✓	✓	✓	✓	✓	
15"	✓				✓	✓	✓	✓	✓	✓	✓	
30"	✓				✓	✓	✓	✓	✓	✓	✓	
40	80				20	✓	✓	✓	✓	✓	✓	
50	20				80	✓	✓	✓	✓	✓	✓	
60	✓				✓	✓	setp	✓	✓	✓	✓	
70	10		10		✓	✓ L4, con - tan - br	IX #	NS				
80	10		80		10	micro xln, tan hd	✓	✓				
90	✓	✓	✓		✓	✓	✓	✓				
4000	10		100		30	✓	✓	✓				

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COMPANY
WELL
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COUNTY

Darling Oil Corp
Hollingsworth #1-3
SECTION 3 TOWNSHIP 35S
SUMNER

DATE 11/14/92
GEOLOGIST Hamilton
RANGE 1W
STATE KANSAS

DEPTH	FORMATION DESCRIPTION					POROSITY		SHOW			
	SH	SD	LM	DOL	CHT	TYPE		% FLUO	CUT	STN	
1000	10		70		20	SHA Ls, bn-fn-cm,	IX II	H P	NS		
20	T		T		100	micro xln, fm-hd, chd	IX II	H P	✓		
30	20		30		50	sch-offsch, hd, vit-	✓	✓	✓		
40	20		70		10	tlp	✓	✓	✓		
50	10		80		✓	✓	✓	✓	✓		
60	20		80		T	Ls, bn-fn; micro	✓	✓	✓		
70	✓		✓		✓	sh, hd, dsse	✓	✓	✓		
80	✓		✓		✓	✓	✓	✓	✓		
90	✓		✓		✓	✓	✓	✓	✓		
4100	10		90		✓	Ls, bn-fn-df	✓	✓	✓		
10	✓		✓		✓	micro xln, fm-hd,	✓	✓	✓		
20	✓		✓		✓	dsse	✓	✓	✓		
30	✓		✓		✓	✓	✓	✓	✓		
40	✓		✓		✓	✓	✓	✓	✓		
50	✓		✓		✓	Ls, bn-fn-df	IX II	H P	✓		
60	✓		✓		✓	micro - P xln, fm-hd	✓	✓	✓		
70	T		100		✓	hd, sh, see to pt,	✓	✓	2000 421	NO	
80	✓		✓		✓	sh, dsse	✓	✓	✓		
90	✓		✓		✓	✓	✓	✓	✓		
4200	✓		✓		✓	✓	✓	✓	✓		

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COMPANY
WELL
LOCATION
COUNTY

Darling Oil Co.
Hollingsworth #1-3
SECTION 3 TOWNSHIP 35S
Summer

DATE 11/14/92
GEOLOGIST Ham Hon
RANGE 1W
STATE KANSAS

DEPTH	FORMATION DESCRIPTION					POROSITY TYPE	SHOW		
	SH	SD	LM	DOL	CHT		% FLUO	CUT	STN
4200 10	10		90			FX H-0	NS		
20	20		80		shale, bn-trcht, micro-f xls, fm-	✓	}		
30	20		70		hd, succ inpt	✓			
40	20		80		sh, gybn, stt, carb	✓			
50	✓				inpt, blk	✓			
60	70		30			✓			
15" 67	80		20			✓			
30"	✓					✓			
45"	70	20	10		SHAALSAA SS, CLR,	I6 f-g			
70	✓	✓	✓		vt-mg, R-SR, f salt,	✓			
80	60	30			UNCONS	✓		prg	
89	80	20	T		SSA w/SS, off wh-	✓			
30"	✓		✓		CLR, f-mg, R-SR, f-g	✓			
60"	✓		✓		SALT, fm-hd, SLI CALC- CALC	✓			