

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

API NO. 15- 15-191-22219-00-00 ORIGINAL
County Sumner

SF/4sec. 3 Twp. 35S Rng. 1 X E
1320 Feet from SW (circle one) Line of Section
990 Feet from SW (circle one) Line of Section

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

Lease Name Hollingsworth Well # #1-3

Field Name S. Haven

Producing Formation none

Elevation: Ground 1120 KB 1127

Total Depth 4289 PSTD

Amount of Surface Pipe Set and Cemented at 301 Feet

Multiple Stage Cementing Collar Used? Yes X No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from _____

feet depth to _____ w/ _____ SX cont.

Operator: License # 30900

Name: DAR-LON Operating

Address Box 158

Lamont, Oklahoma 74643

City/State/Zip _____

Purchaser: N/C

Operator Contact Person: Dan Darling

Phone (405) 388-4567

Contractor: Name: Mendenhall Drilling

License: 37073

Wellsite Geologist: Bill Hamilton

Designate Type of Completion 2-2'

New Well Re-Entry Workover

Oil SWD SIOW Temp. Abd.

Gas EMHR SIGW

Dry Other (Core, WSV, 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 _____ PSTD

Commingled _____ Docket No. _____

Dual Completion _____ Docket No. _____

Other (SWD or Inj?) _____ Docket No. _____

11-5-92 11-14-92 P&A 11-15-92

Spud Date Date Reached TD Completion Date

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

Chloride content 1300 ppm Fluid volume 3500 estbbls

Conservation method used Evaporation

Location of fluid disposal if hauled offsite: _____

Operator Name _____

Lease Name _____ License No. _____

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

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 reports shall be attached with this form. ~~ACCESSION 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

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

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WICHITA, KS

pl

Operator Name DAR-LON Operating

Lease Name Hollingsworth Well # 1-3

Sec. 3 Twp. 35S Rge. 1

County Sumner County

East
 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 sheets 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
	Home 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 <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
<u>Surface</u>	<u>1 1/2</u>	<u>8 5/8</u>	<u>24</u>	<u>310</u>	<u>REG</u>	<u>200</u>	<u>5% RCL</u>

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 Specify Footage of Each Interval	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth

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TUBING RECORD	Size	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No

Date of First, Resumed Production, SWD or Inj. _____ 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: Vented Sold Used on Lease (If vented, submit ACD-18.)

METHOD OF COMPLETION: Open Hole Perf. Dually Comp. Commingled Other (Specify) _____

Production Interval _____



INVOICE

HALLIBURTON SERVICES

A Halliburton Company

INVOICE NO.	DATE
302979	11/06/1992

ORIGINAL

WELL LEASE NO./PLANT NAME		WELL/PLANT LOCATION		STATE	WELL/PLANT OWNER
HOLLINGWORTH 1		SUMNER		KS	DARLING OIL CO
SERVICE LOCATION		CONTRACTOR	JOB PURPOSE		TICKET DATE
ENID		MENDENHALL DRILLING	CEMENT SURFACE CASING		11/06/1992
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.
216678	DAN DARLING			COMPANY TRUCK	42403

DARLING DRILLING CO
P.O. BOX 158
LAMONT, OK 74643

DIRECT CORRESPONDENCE TO:
FIRST OKLAHOMA TOWER
210 WEST PARK AVENUE
SUITE 2050
OKLAHOMA CITY, OK 73102-5601

PRICE REF. NO.	DESCRIPTION	QUANTITY	U/M	UNIT PRICE	AMOUNT
000-117	PRICING AREA - EASTERN AREA1 MILEAGE	40	MI	2.60	104.00
		1	UNT		
001-016	CEMENTING CASING	312	FT	515.00	515.00
		1	UNT		
218-743	ANHIB	5	GAL	36.50	182.50
504-095	CEMENT HI-YIELD LIGHT	100	SK	8.00	800.00
504-308	STANDARD CEMENT	100	SK	6.02	602.00
509-406	ANHYDROUS CALCIUM CHLORIDE	3	SK	26.50	79.50
507-210	FLOCELE	25	LB	1.30	32.50
500-207	BULK SERVICE CHARGE	215	CFT	1.15	247.25
500-306	MILEAGE CMTG MAT DEL OR RETURN	391.54	TMI	.80	313.23
	INVOICE SUBTOTAL				2,875.98
	DISCOUNT-(BID)				575.19-
	INVOICE BID AMOUNT				2,300.79
	*-KANSAS STATE SALES TAX				49.96
	INVOICE TOTAL - PLEASE PAY THIS AMOUNT				\$2,350.75

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Wichita, Kansas

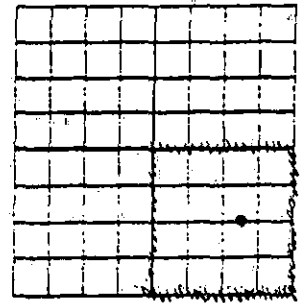
TERMS INVOICES PAYABLE NET BY THE 20TH OF THE FOLLOWING MONTH AFTER DATE OF INVOICE, UPON CUSTOMER'S DEFAULT IN PAYMENT OF CUSTOMER'S ACCOUNT BY THE LAST DAY OF THE MONTH FOLLOWING THE MONTH IN WHICH THE INVOICE IS DATED, CUSTOMER AGREES TO PAY INTEREST THEREON AFTER DEFAULT AT THE HIGHEST LAWFUL CONTRACT RATE APPLICABLE BUT NEVER TO EXCEED 18% PER ANNUM. IN THE EVENT IT BECOMES NECESSARY TO EMPLOY AN ATTORNEY TO ENFORCE COLLECTION OF SAID ACCOUNT, CUSTOMER AGREES TO PAY ALL COLLECTION COSTS AND ATTORNEY FEES IN THE AMOUNT OF 20% OF THE AMOUNT OF THE UNPAID ACCOUNT.

CEMENTING REPORT
TO ACCOMPANY COMPLETION REPORT

640 ACRES

API NO. 75-191-22219
OTC/OCC OPERATOR NO. 30900

OKLAHOMA CORPORATION COMMISSION
Oil & Gas Conservation Division
Jim Thorpe Office Building
Oklahoma City, Oklahoma 73105-4993
OAC 165:10-3-4(h)



All operators must include this form when submitting the Completion Report, (Form 1002A). The signature on this statement must be that of qualified employees of the cementing company and operator to demonstrate compliance with OAC 165:10-3-4(h). It may be advisable to take a copy of this form to location when cementing work is performed.

TYPE OR USE BLACK INK ONLY

11/6/92 302979

*Field Name _____ *O.C.C. District #2

*Operator Parling Oil Co. *County Sumner County

*Lease Name Hollingsworth *Well Number 1-3

*Location 1/4 1/4 1/4 SE 1/4 3- 35S Twp. 1W Rge

CEMENT CASING DATA	CONDUCTOR CASING	SURFACE CASING	ALTERNATIVE CASING	INTERMEDIATE CASING	PRODUCTION STRING	LINER
Cementing Date		<u>11/6/92</u>				
*Size of Drill Bit (inches)		<u>12 1/4</u>				
*Estimated % wash or hole enlargement used in calculations		<u>100%</u>				
*Size of Casing (inches O.D.)		<u>8 1/2</u>				
*Top of Liner (if liner used) (ft.)						
*Setting Depth of Casing (ft.) from ground level		<u>310</u>				
Type of Cement (API Class) In first (lead) or only Slurry		<u>High Yield/Standard</u>				
In second Slurry						
In third Slurry						
Sacks of Cement Used In first (lead) or only Slurry		<u>100</u>				
In second Slurry		<u>100</u>				
In third Slurry						
Vol of Slurry pumped (Cu ft) (14.X15.) In first (lead) or only Slurry		<u>47</u>				
In second Slurry		<u>21</u>				
In third Slurry						
Calculated Annular Height of Cement behind Pipe (ft)		<u>5.1</u>				
Cement left in pipe (ft)		<u>4.0</u>				

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Wichita, Kansas

*Amount of Surface Casing Required (from Form 1000) 275 ft.

*Was cement circulated to Ground Surface? Yes No *Was Cement Staging Tool (DY Tool) Used? Yes No

*Was Cement Bond Log run? Yes No (If so, ATTACH COPY) *If Yes, at what depth _____ ft.

(CEMENTING COMPANY AND OPERATOR MUST COMPLY WITH THE INSTRUCTIONS ON REVERSE SIDE OF FORM.)

* Designates items to be completed by Operator. Items NOT so designated shall be completed by the Cementing Company.

Remarks $8\frac{1}{8}$ Surface Pipe
 High Yield Lite
 Standard - 370 CC, $1\frac{1}{4}$ #/SK Floccite

*Remarks

CEMENTING COMPANY

I declare under applicable Corporation Commission rule, that I am authorized to make this certification, that the cementing of casing in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct and complete to the best of my knowledge. This certification covers cementing data only.

Michael Hemming
 Signature of Cementer or Authorized Representative

Michael Hemming
 Name of Person and Title (Type or Print)

Halliburton Services
 Cementing Company

P.O. Box 1147
 Street Address or P.O. Box

Enid OK 73751
 City State Zip

405-234-3353
 Telephone (AC) Number

11/6/92
 Date

OPERATOR

I declare under applicable Corporation Commission rule, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct and complete to the best of my knowledge. This certification covers all well data and information presented herein.

Dan Darling
 *Signature of Operator or Authorized Representative

Dan Darling
 *Name of Person and Title (Type or Print)

DAR-LOW OPERATING
 *Operator

Box 158
 *Street Address or P.O. Box

Lamont OKla 74643
 *City State Zip

405-388-6681
 *Telephone (AC) Number

12/10/92
 *Date

INSTRUCTIONS

1. A) This form shall be filed by the operator, at the O.C.C. office in Oklahoma City, as an attachment to the Completion Report (Form 1002A) for a producing well or a dry hole.
- B) An original and one copy of this form shall be filed as an attachment to the Completion Report, (Form 1002A) for each cementing company used on a well.
- C) The cementing of different casing strings on a well by one cementing company may be consolidated on one form (to be filed in duplicate).
2. Cementing Company and Operator shall comply with the applicable portions of OAC 165:10-3-4(h).
3. Set surface casing 50 feet below depth of treatable water to be protected and cement from casing shoe to ground surface or as allowed by OAC 165:10-3-4(h).
4. IF SETTING ANYTHING OTHER THAN THE FULL AMOUNT OF SURFACE CASING, BE SURE TO FOLLOW THE CORPORATION COMMISSION REGULATIONS.
5. TYPE OR USE BLACK INK ONLY.

HALLIBURTON SERVICES

A Halliburton Company

INVOICE

INVOICE NO.	DATE
303008	11/15/1992

WELL LEASE NO./PLANT NAME	WELL/PLANT LOCATION	STATE	WELL/PLANT OWNER		
HOLLINGWORTH 1-3	SUMNER	KS	DARLING OIL CO		
SERVICE LOCATION	CONTRACTOR	JOB PURPOSE	TICKET DATE		
ENID	MENDENHALL DRILLING	PLUG TO ABANDON	11/15/1992		
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO
216678	JAKE D			COMPANY TRUCK	42721

DARLING DRILLING CO
P.O. BOX 158
LAMONT, OK 74643

DIRECT CORRESPONDENCE TO:
FIRST OKLAHOMA TOWER
210 WEST PARK AVENUE
SUITE 2050
OKLAHOMA CITY, OK 73102-5601

PRICE REF. NO.	DESCRIPTION	QUANTITY	U/M	UNIT PRICE	AMOUNT
PRICING AREA - EASTERN AREA1					
000-117	MILEAGE	40	MI	2.50	104.00
		1	UNT		
009-019	PLUGGING BK SPOT CEMENT OR MUD	1000	FT	690.00	690.00
		1	UNT		
117-000	TUBING & ROTARY SUBS-ONSHORE	4	IN	35.00	35.00
		1	EA		
504-043	PREMIUM CEMENT	110	SK	6.88	756.80
500-207	BULK SERVICE CHARGE	110	CFT	1.15	126.50
500-306	MILEAGE CMTG MAT DEL OR RETURN	206.80	TMI	.80	165.44
	INVOICE SUBTOTAL				1,877.74
	DISCOUNT - (BID)				469.43
	INVOICE BID AMOUNT				1,408.31
	INVOICE TOTAL - PLEASE PAY THIS AMOUNT				\$1,408.31

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TERMS INVOICES PAYABLE NET BY THE 20TH OF THE FOLLOWING MONTH AFTER DATE OF INVOICE. UPON CUSTOMER'S DEFAULT IN PAYMENT OF CUSTOMER'S ACCOUNT BY THE LAST DAY OF THE MONTH FOLLOWING THE MONTH IN WHICH THE INVOICE IS DATED, CUSTOMER AGREES TO PAY INTEREST THEREON AFTER DEFAULT AT THE HIGHEST LAWFUL CONTRACT RATE APPLICABLE BUT NEVER TO EXCEED 18% PER ANNUM IN THE EVENT IT BECOMES NECESSARY TO EMPLOY AN ATTORNEY TO ENFORCE COLLECTION OF SAID ACCOUNT, CUSTOMER AGREES TO PAY ALL COLLECTION COSTS AND ATTORNEY FEES IN THE AMOUNT OF 20% OF THE AMOUNT OF THE UNPAID ACCOUNT

Midcontinent Consultants, Inc.

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

ORIGINAL

GEOLOGICAL REPORT

Darling Oil Corporation

Hollingsworth No. 1-3

Section 3-T35S-R1W

Sumner County, Kansas

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KANSAS CORPORATION COMMISSION

DEC 18 1992

CONSERVATION DIVISION
WICHITA, KS

ORIGINAL

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

ORIGINAL

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

ORIGINAL

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

ORIGINAL

FORMATION TOPS

<u>Formation</u>	<u>Log</u>	<u>Subsea</u>	<u>Sample</u>	<u>Subsea</u>
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Mississippi Lime	4018	-2891	4016	-2889
Woodford	4194	-3067	4198	-3171
Simpson	4263	-3136	4263	-3236

ORIGINAL

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%

ORIGINAL

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 E SL 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.

ORIGINAL

SURFACE ACTION-INITIAL OPEN

1 MIN	<u>1" Blow - Poor</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 - Poor</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

ORIGINAL

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 XH 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

ORIGINAL

COMPANY Darling Oil Corp WELL Hollingsworth #1-3
LOCATION _____ SECTION 3 T35S R3W COUNTY Summer STATE KS

DST NO. 2 FROM 3920 TO 30 DATE 11/13/92 ELEV. 1127 KB

FORMATION Miss Chat TYPE TEST Comm HOLE SIZE 7 7/8

SERVICE COMPANY ARS 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.

SURFACE ACTION-INITIAL OPEN

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

ORIGINAL

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 3900 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

ORIGINAL

Midcontinent Consultants, Inc.

COMPANY
WELL
LOCATION
COUNTY

Darling Oil Corp
Hollingsworth #1-3
^{1320 PSL}
^{990 PSL} 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			Sh, gy-ltgy, sft, silty	IG	p	NS	
60	✓	✓	✓			blk, ss, ltgy-gy	✓	✓		
90	100	T	✓			lt gy, SL-SS, PSNT, sft, SL, mg	✓	✓		
1620	90	10	✓			SHAASSAA Ls, cm-thr	EX	ff		
50	80	✓	10			ht micro xls, fm, sh. chky				
80	100	T	T							
1710	✓	✓	✓							
40	✓	✓	✓							
70	80	T	20			SHAA LSAA	EX	ff		
1800	✓	✓	✓							
30	90	✓	10							
60	70	✓	30			SHAA Ls, cm-ht-tn	✓	✓		
90	90	✓	10			micro xls, fm-hd,	✓	✓		
1920	80	✓	20			sh. chky	✓	✓		
50	✓	✓	✓				✓	✓		
80	✓	✓	✓				✓	✓		
2010	90	✓	10				✓	✓		
20	80	10	✓				✓		NS	
30	90	T	10				✓		1	
40	80	✓	20				✓		drill 421 in	no
50	70	10	✓				✓			✓
60	70	T	80			SHAA Ls, cm-ht-tn,	EX	ff-p	drill 421 in	no
70	90	✓	10			micro-f xls, fm,	✓	✓		✓
80	30	✓	70			sh. chky, sh. conc	✓	✓		✓
90	✓	✓	✓			mgd	✓	✓		✓
2100	90	✓	10				✓	✓		✓

ORIGINAL

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 TYPE	SHOW	
	SH	SD	LM	DOL	CHT		% FLUO	CUT
10	80	T	20			IX H	50-60	
20	60	✓	40			✓	40	
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	✓	✓	✓					

ORIGINAL

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			Sh, gy - rd, sft -	IX	IT	dull	
20	✓	✓	✓			tan, sly, blk,	✓	✓	4E1	
30	80	✓	20			Ls, cm - bt - tan,	✓	✓	min	
40	90	✓	10			micro sh, tan to	✓	✓		
50	80	✓	20			sl chky	✓	✓		
60	90	✓	10			✓	✓	✓		
70	✓	✓	✓			✓	✓	✓		
80	80	✓	20			✓	✓	✓		
90	✓	✓	✓			✓	✓	✓		
2200										
10	80	✓	20			✓	✓	✓		
20	90	✓	10			✓	✓	✓		
30	80	✓	20			✓	✓	✓		
40	40	T	60			✓	✓	15		
50	80	✓	20			✓	✓			
60	100	✓	T			Sh, gy - rd - lt gy				
70	✓	✓	✓			sft - tan, sly - f				
80	✓	✓	✓			blk, blk				
90	✓	✓	✓			spic v poor				
2300										
10	✓	✓	✓			✓				
20	✓	✓	✓			✓				
30	✓	✓	✓			✓				
40	20	T	80			ShAA Ls, cm - bt -	IX	IT	SP	
50	30	✓	70			tr - off wh micro	✓	✓	4E1	
60	50	✓	50			sh, tan to, sl chky	✓	✓	min	
70	40	✓	60			mp	✓	✓		
80	60	✓	40			✓	✓	✓		
90	50	✓	50			✓	✓	✓		
2400	40	✓	60			✓	✓	✓		

ORIGINAL

Midcontinent Consultants, Inc.

COMPANY
WELL
LOCATION
COUNTY

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

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

DEPTH	FORMATION DESCRIPTION				POROSITY TYPE	SHOW		
	SH	SD	LM	DOL CHT		% FLUO	CUT	STN
2700	100	T	T					NS
20	✓	✓	✓					
30	✓	✓	✓					
40	✓	✓	✓					
50	✓	✓	✓					
60	✓	✓	✓					
70	200	✓	40		IX	IT		
80	70	✓	30		✓	✓		
90	100	30	10		IX	P		
2800	100	T	T					NS
10	70	30	✓		✓	✓		
20	100	40	✓		✓	✓		
28	90	90			✓	✓		
30	✓	✓			✓	✓		
40	20	80			✓	✓		
50	40	60			✓	✓		
60	✓	✓			✓	✓		
70	20	80			✓	✓		
80	30	70			✓	✓		
90	✓	✓			✓	✓		
2900	40	60			✓	✓		NS
10	10	90			✓	✓		
20	✓	✓			✓	✓		
30	70	80			✓	✓		
40	✓	✓			✓	✓		
50	✓	✓			✓	✓		
60	10	30	100		IX	IT		
70	20	70	10		✓	✓		
80	80	10	✓		✓	✓		
90	70	20	✓		✓	✓		
3000	✓	✓	✓		✓	✓		

ORIGINAL

Midcontinent Consultants, Inc.

COMPANY Darting Oil DATE 11/10/92
 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
10	100	T	T						NS
20									}
30									
40									
50									
60									
70									
80									
90									
3100									
10									
20									
30	80	20				IG pf		US	
40									
50	90	10							
60	60	40							
70	100	T							
80									
90									
95	90	10				IG fg		NS	
0"									}
15"	60	40							
200	90	10							

Sh. gy-dk gy, silt-
 thin, silty - f. tex,
 splin in pt, blk/y

shaa ss, clay - clr
 vt-fg, sr-sa, f-satg,
 thin - lincos, argill.

shaa ss, clr, vt-fg,
 sr-sa, f-satg, lincos,

ORIGINAL

Midcontinent Consultants, Inc.

COMPANY
WELL
LOCATION
COUNTY

Darling Oil Corp
Hollingsworth #1-3
SECTION 3
SUMNER

DATE 11/11/92
GEOLOGIST HAMILTON
TOWNSHIP 35S RANGE 1W
STATE KANSAS

DEPTH	FORMATION DESCRIPTION					POROSITY TYPE	SHOW		
	SH	SD	LM	DOL	CHT		% FLUO	CUT	STN
3210	90	10	T			Sh, dkgy - gy, sft - fm	10 p	NS	
20	70	30	✓			Slt - fm, blk, SS	✓		
30	40	60	✓			Hgy, vt - fm, SR - SA, p.	✓		
40	30	70	✓			Ps, fm, fm - uncom.	✓		
50	20	80	✓			ARG - sli 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 - fm -	IX H-p	NS	
20	60	T	40			bf - cm, micro - f	✓		
30	✓	✓	✓			xln, fm - hd, foss	✓		
40	80	✓	20			in pt, sli, chky, 1 - pt	✓		
50	✓	✓	✓			sh, bk, sft, carb	✓		
60	✓	✓	✓			✓	✓		
70	40	✓	10			SHAA LS, cm - bf -	IX H	dull min	NO
80	✓	✓	✓			fm, micro xln, fm	✓		✓
90	30	✓	70			hd, sli, chky	✓	✓	✓
3500	10	✓	90			✓	✓	✓	✓

ORIGINAL

Midcontinent Consultants, Inc.

COMPANY
WELL
LOCATION
COUNTY

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

DATE 1/11/92
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	5-10 dull 4-6 min	no-p	
20	70		30			✓		Residual	
30	60	30	10			II P	✓		
40	10	90	T			✓			
50	40	60	✓			✓			
60	80	20	✓			✓			
70	20	T	80			IX H	✓		
80	10	✓	90			✓			
90	40	✓	60			✓			
3600-20			40			✓			
10	✓		✓			✓			
20	60		40			✓			
30	30		70			✓			
40	10		90			✓			
50	✓		✓			✓			
60	✓		✓			✓			
70	20		80			✓			
80	✓		✓			✓			
90	10		90			✓			
3700-30			70			✓			
10	40		60			✓			
20	30		70			✓			
30	70		30			✓			
40	60		40			✓			
50	40		60			✓			
60	70		30			✓			
70	80		20			✓			
80	90		10			✓			
90	✓		✓			✓			
3800-✓			✓			✓			

ORIGINAL

Midcontinent Consultants, Inc.

COMPANY

Darling Oil Corp

DATE

11/12/92

WELL

Hollingsworth #1-3

GEOLOGIST

Hamm

LOCATION

SECTION 3 TOWNSHIP 35S

RANGE

1W

COUNTY

Sumner

STATE

KANSAS

DEPTH	FORMATION DESCRIPTION						POROSITY TYPE	SHOW			
	SH	SD	LM	DOL	CHT	% FLUO		CUT	STM		
3800-10	100	T	T			Sh, Hazy-dk gy-blk			NS		
20	90	✓	10			sft-fine, silty-f					
30	100	✓	T			tex, blk, splin imp					
40	✓	✓	✓			✓					
50	✓	✓	✓			✓					
60	✓	✓	✓			✓					
70	✓	✓	✓			✓					
80	✓	✓	✓			✓					
90	✓	✓	✓			✓					
3900	✓	✓	✓			✓					
10	100	✓	✓			Sh, Hazy, sft-fine					
20	✓	✓	✓			tex, splin imp					
15" 25	100	T	T			silty imp					
30"	✓	✓	✓			✓					
45"	10				90	cht, to-off wh	IG F-g	421	ent-pool	set	IT-T
60"	✓				✓	trap-vit, hd, good	✓	✓	✓	✓	✓
30	✓				✓	odor	✓	✓	✓	✓	✓
15"	✓				✓	✓	✓	✓	✓	✓	✓
30"	✓				✓	✓	✓	✓	✓	✓	✓
140	80				20	✓	✓	✓	✓	✓	✓
50	20				80	✓	✓	✓	✓	✓	✓
60	✓				✓	✓	✓	set	✓	✓	✓
70	10		10		✓	✓ Lg, cm-ta-bn	IX #	NS			
80	10		80		10	micro pla, tan hd	✓	✓			
90	✓	✓	✓		✓	✓	✓	✓			
4000	10		60		30	✓	✓	✓			

ORIGINAL

Midcontinent Consultants, Inc.

COMPANY

Darling Oil Corp

DATE

11/14/92

WELL

Hollingsworth #1-3

GEOLOGIST

Ham Hon

LOCATION

SECTION 3 TOWNSHIP 35S

RANGE

1W

COUNTY

Sumner

STATE

KANSAS

DEPTH	FORMATION DESCRIPTION					POROSITY TYPE	SHOW		
	SH	SD	LM	DOL	CHT		% FLUO	CUT	STM
4200- 10	10		90			FX H-D	NS		
20	20		80		micro-f xln fm-	✓	}		
30	30		70		hd, suc imp	✓			
40	20		80		sh, gubn, stt, carb	✓			
50	✓				imp, 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		SSAAW/SS, off wh-	✓			
30"	✓		✓		CLR, f-mg, R-SR, f-g	✓			
60"	✓		✓		salt, fm-hd, sli calc-	✓			
					calc				