

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

API NO. 15- 199-20251-0000

County Wallace County

- C - N/2 - NE Sec. 31 Twp. 15S Rge. 41 E
x W

770 Feet from S (circle one) Line of Section

1320 Feet from B/W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:

(NE) SE, NW or SW (circle one)

Lease Name OFL Well # 5-31

Field Name Mt. Sunflower S.E.

Producing Formation Morrow

Elevation: Ground 3797 KB 4007

Total Depth 5183 PBDT 5147

Amount of Surface Pipe Set and Cemented at 378 Feet

Multiple Stage Cementing Collar Used? x Yes No

If yes, show depth set 1949 Feet

If Alternate II completion, cement circulated from 1949

feet depth to surface w/ 225 sx cmt.

Drilling Fluid Management Plan ALT 2 JH 8-21-98
(Data must be collected from the Reserve Pit)

Chloride content NA ppm Fluid volume 750 bbl est.

Dewatering method used Cut windows, let dry

Location of fluid disposal if hauled offsite:
KCC

Operator Name JAN 9

Lease Name CONFIDENTIAL License No.

 Quarter Sec. Twp. S Rng. E/W

County Docket No.

Operator: License # 30425 **CONFIDENTIAL**

Name: DNR Oil & Gas Inc.

Address 655 Broadway - Suite 525

City/State/Zip Denver, CO 80203

Purchaser: Koch Oil Company

Operator Contact Person: Charles B. Davis

Phone (303) 825-8956

Contractor: Name: Murfin Drilling Company

License: 30606

Wellsite Geologist: R. Lee Tucker

Designate Type of Completion

x New Well Re-Entry Workover

x Oil SWD SIGW Temp. Abd.

 Gas ENHR SIGW

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

If Workover/Reentry: Old Well Info as follows:

Operator: JAN 29 1999

Well Name:

Comp. Date **CONFIDENTIAL**

 Deepening Re-perf. Conv. to Inj/SWD

 Plug Back PBDT

 Commingled Docket No.

 Dual Completion Docket No.

 Other (SWD or Inj?) Docket No.

9-29-97 10-8-97 10-20-97
Spud Date Date Reached TD Completion Date

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 Charles B. Davis
Title President Charles B. Davis Date 12/9/97

Subscribed and sworn to before me this 9th day of December, 1997

Notary Public Carmie S. Metzger
Date Commission Expires April 22, 1999

No Geologist's Report Prepared

F	<input checked="" type="checkbox"/>	K.C.C. (OFFICE USE ONLY)
F	<input checked="" type="checkbox"/>	Letter of Confidentiality Attached
C	<input checked="" type="checkbox"/>	Wireline Log Received
C	<input checked="" type="checkbox"/>	Geologist Report Received
Distribution		
<input checked="" type="checkbox"/>	KCC	<input type="checkbox"/> SWD/Rep
<input type="checkbox"/>	KGS	<input type="checkbox"/> Plug
<input type="checkbox"/>		<input type="checkbox"/> NGPA
<input type="checkbox"/>		<input type="checkbox"/> Other
(Specify)		

01-26-97

Operator Name DNR Oil & Gas Inc. Lease Name Nickelson Well # 3-31

Sec. 31 Twp. 15S Rge. 41
 East
 West

County Wallace

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
 Compensated Neutron Density PE
 Sonic Log
 Micro Log

Log Formation (Top), Depth and Datums Sample

Name	Top	Datum
B/ Anhydrite	2746	+1051
Topeka	3928	- 131
Heebner	4084	- 287
Lansing	4187	- 390
Marmaton	4494	- 697
Cherokee	4701	- 904
Morrow Shale	4941	-1144
Morrow Lime	5066	-1269

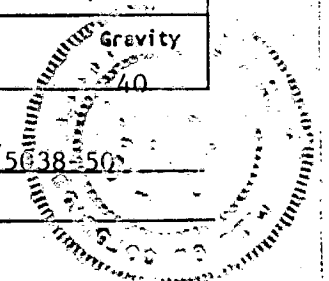
CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12 1/4"	8 5/8"	23	348	60/40 Poz	260	2% Gel, 3% CaCl.
Production	7 7/8"	5 1/2"	15.5	5176	Standard	150	5% KCl, .4% CFR-3, .3% Halad 344

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	0-1941	Midcon II	225	3% CaCl, 3/8#/Sax flocele

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	
	4	5038-50		

TUBING RECORD		Size	Set At	Packer At	Liner Run	Production Interval	
		2 7/8"	5109		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5038-50	
Date of First, Resumed Production, SWD or Inj.			Producing Method				
10-15-97			<input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity		
150		100	0		40		

Disposition of Gas: METHOD OF COMPLETION Vented Sold Used on Lease (If vented, submit ACO-18.) Open Hole Perf. Dually Comp. Commingled Other (Specify) _____





JOB SUMMARY 4239-1

15-199-20251-00-00

REGION North America	NWA/COUNTRY MEXICO	TICKET # 197172	TICKET DATE 10-9-97
MBU ID / EMP # HA0101 89377	EMPLOYEE NAME WAYNE WILSON	BDA / STATE KANSAS	COUNTY WALLACE
LOCATION HAYS, KS	COMPANY DNR OEL GAS	PSL DEPARTMENT CEMENT	CUSTOMER REP / PHONE CHARLES DAVIS
TICKET AMOUNT 19977.02	WELL TYPE 01	API / UWI # 15199202510000	JOB PURPOSE CODE 035
WELL LOCATION SI WESKAW, KS	DEPARTMENT CEMENT	31-15S-41W	
LEASE / WELL # O.T.L. 5-31	SEC / TWP / RNG		

HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS
WILSON 89377	FULK 50763	LEEKER 16872	RELEASED
ORIGINAL			JAN 29 1999

HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES
420995	324						
53293M	324						
3846-76103	324						

Form Name _____ Type: _____
 Form Thickness _____ From _____ To _____
 Packer Type _____ Set At _____
 Bottom Hole Temp. _____ Pressure _____
 Misc. Data _____ Total Depth _____

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY	MAKE
Float Collar FELL-UP	1	HOWCO
Float Shoe	1	"
Guide Shoe		
Centralizers CUSTOMER PROVIDED		
Bottom Plug BASKETS	3	"
Top Plug L.B. PLUG SET	1	"
Head P.C.	1	"
Packer-ROTATING HEAD	1	"
Other BU TOOL	1	"

MATERIALS

Treat Fluid	Density	Lb/Gal
Disp. Fluid	Density	Lb/Gal
Prop. Type	Size	Lb.
Prop. Type	Size	Lb.
Acid Type	Gal.	%
Acid Type	Gal.	%
Surfactant	Gal.	In
NE Agent	Gal.	In
Fluid Loss	Gal/Lb	In
Gelling Agent	Gal/Lb	In
Fric. Red.	Gal/Lb	In
Breaker	Gal/Lb	In
Blocking Agent	Gal/Lb	
Perpac Balls	Qty.	
Other		
Other		
Other		
Other		

DATE	CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
	10-9	10-9	10-9	10-10
TIME	1100	1500 CT	2115 CT	0430 CT

WELL DATA

	NEW/USED	WEIGHT	SIZE	FROM	TO	MAX ALLOW
Casing	U	15.5	5"b	R.R.	5173.06	
Liner						
Liner						
Tbg/D.P.						
Tbg/D.P.						
Open Hole			7 7/8	5173.06	5183	SHOTS/FT.
Perforations						
Perforations						
Perforations						

HOURS ON LOCATION		OPERATING HOURS		DESCRIPTION OF JOB
DATE	HOURS	DATE	HOURS	
10-9	7	10-9	112	CANTON CASINGS
10-10	410	10-10	112	
TOTAL		TOTAL		

HYDRAULIC HORSEPOWER

ORDERED _____ Avail. _____ Used _____

AVERAGE RATES IN BPM

TREATED _____ Disp. _____ Overall _____

FEET 23.75 **CEMENT LEFT IN PIPE** Reason _____

CEMENT DATA

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	YIELD	LBS/GAL
1	150	EA-2	B	5% CALCEAL, 18% SALT, 15% MILAN 332, 5# GUNDRITE	1143	15.36
2	190	MEXCON II	B	3% OCC, 3/8 # FIDUCEL P/SK	3.22	11.1
	35	"	"	"	2.00	12.58

Circulating _____ Displacement _____ Preflush: Gal - BBI 20/12 Type CEMENT / MUD
 Breakdown _____ Maximum _____ Load & Bkdn: Gal - BBI Pad: BBI - Gal
 Average _____ Frac Gradient _____ Treatment Gal - BBI Disp: BBI - Gal 122.6
 Shut In: Instant _____ 5 Min _____ 15 Min _____ Cement Slurr Gal - BBI 238.3 (17) 121.5 (2.7)
 Total Volume Gal - BBI _____

Frac Ring #1 _____ Frac Ring #2 _____ Frac Ring #3 _____ Frac Ring #4 _____

THE INFORMATION STATED HEREIN IS CORRECT CUSTOMER'S REPRESENTATIVE SIGNATURE _____



JOB LOG 15-199-20251-00-07

TICKET #	197142	TICKET DATE	10-9-97
BDA / STATE	KANSAS	COUNTY	WILLIAMS
PSL DEPARTMENT	CEMENT	API / UWI #	C1100111 00000
CUSTOMER REP / PHONE	CEMENT	JOB PURPOSE CODE	035

REGION	North America	NWA/COUNTRY	MEXICO
MBU ID / EMP #	110101 89371	EMPLOYEE NAME	WARR WELLS
LOCATION	O.F.L. S-31	COMPANY	WARR WELLS
TICKET AMOUNT	19974.00	WELL TYPE	OIL - GAS
WELL LOCATION	O.F.L. S-31	DEPARTMENT	CEMENT
LEASE / WELL #	O.F.L. S-31	SECT TWP / RING	31-15-41W

HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS
WELLS 89371	FULL 70463	LESTER 116872	

ORIGINAL

RELEASED

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESS: (psi)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
	1100							CALLED OUT
	1500 CT							ON LOCATION - DISCUSS JOB PROCEDURES FROM CONFIDENTIAL
	1630 CT							START CASING TO WELL
	2015							DROP BALL - CIRCULATE - ROTATE CASING
1	2117	6	20		✓	200		PUMP CEMENT II PREFLUSH - SHUT DOWN ROTATING
	2121	6	12		✓	200		PUMP MUDFLUSH
	2127	6	38.2		✓	150		MIX CEMENT
	2135							WASH OUT PUMP - LEAKS
	2136							RELEASE 1ST STAGE PLUG - WATCH DOWN
	2141	6	0		✓	500		DISPLACE PLUG 76 H2O - 46.6 MWD
	2202	4	122.6			1500		LAND PLUG - PST UP - LATCH DOWN PLUG
	2204							OK RELEASE PST - HELD
	2209							DROP D.V. OPENING PLUG - LOAD 2ND STAGE CLOSING PLUG
	2222				✓	600		OPEN D.V. TOOL - CIRCULATE 4 HRS - MWD PUMP
								CONFIDENTIAL
1	0209	7h	121.5		✓			MIX CEMENT KCC
	0225							WASH OUT PUMP - LEAKS
	0226							RELEASE CLOSING PLUG JAN 9
	0230	6	0		✓	450		DISPLACE PLUG
	0238	2	46.6			1750		LAND PLUG - PST UP - CLOSE DV TOOL CONFIDENTIAL
	0240							OK RELEASE PST - HELD
								PUMP CEMENT AND GRIND TO PLUG POSITION - MONITOR
								CIRCULATE 40 SKS CEMENT TO BIT
								WASH-UP
								RINSE-UP
								FLASH TICKETS
	0430							JOB COMPLETE - LEAVE LOCATION - HEADS TO YARD

RECEIVED
 - CONTRACTOR COMMISSION
 WARR WELLS
 CONFIDENTIAL

ALLIED CEMENTING CO., INC. 8586

Federal Tax I.D.#

15-199-20251-00-00

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

SERVICE POINT:

ORIGINAL

Oakley

DATE <u>9-30-97</u>	SEC. <u>31</u>	TWP. <u>15 S</u>	RANGE <u>41 W</u>	CALLED OUT	ON LOCATION <u>2:00 AM</u>	JOB START	JOB FINISH <u>6:00 AM</u>
LEASE <u>O.F.L.</u>	WELL # <u>5-31</u>	LOCATION <u>Sharon Springs W to Rd 9</u>			COUNTY <u>Wallace</u>	STATE <u>Kan</u>	
OLD OR NEW (Circle one) <u>NEW</u>		<u>115-1611-1/4N</u>					

CONTRACTOR <u>Martin Dr. Co #14</u>	OWNER <u>Same</u>
TYPE OF JOB <u>Surface</u>	
HOLE SIZE <u>12 1/4</u>	T.D. <u>395'</u>
CASING SIZE <u>8 5/8</u>	DEPTH <u>393'</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT <u>40.67</u>
CEMENT LEFT IN CSG. <u>40'</u>	
PERFS.	
DISPLACEMENT	

CEMENT	
AMOUNT ORDERED <u>260 SKS 40/40 PCC</u>	
<u>3% CC - 2% CO</u>	
COMMON	@
POZMIX	@ RELEASED
GEL	@
CHLORIDE	@ JAN 29 1999

EQUIPMENT

PUMP TRUCK	CEMENTER <u>Walt</u>
# <u>191</u>	HELPER <u>Dean</u>
BULK TRUCK	
# <u>218</u>	DRIVER <u>Andrew</u>
BULK TRUCK	
#	DRIVER

CONFIDENTIAL	FROM CONFIDENTIAL
	@
	@
HANDLING	@
MILEAGE	@
<u>KCC</u>	
JAN 9	TOTAL

REMARKS:

Cement Did Cure

Phil Lee

DEPTH OF JOB	<u>393'</u>
PUMP TRUCK CHARGE	
EXTRA FOOTAGE <u>93'</u>	@ <u>414</u>
MILEAGE <u>miles</u>	@ <u>2.2</u>
PLUG <u>8 5/8 surface</u>	@
	@
	@ CONF
	ION COMMISSION

CHARGE TO: DNR Oil & Gas Inc

STREET _____

CITY _____ STATE _____ ZIP _____

JAN 26 1998 TOTAL

FLOAT EQUIPMENT

<u>8 5/8</u>	
1- Buffer Plate	@
1- Contactor	@
1- Thread Loc	@
	@
	@

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.

TOTAL _____

TAX _____

TOTAL CHARGE _____

DISCOUNT _____ IF PAID IN 30 DAYS

SIGNATURE *Phil Lee*

PRINTED NAME _____

TRILOBITE TESTING L.L.C.

15-199-20251-00-00
ORIGINAL

OPERATOR : DNR Oil & Gas Inc.
 WELL NAME: OFL #5-31
 LOCATION : 21-155-41W Wallace KS
 INTERVAL : 4927.00 To 5020.00 ft

DATE 10-7-87
 KB 3807.00 ft
 OR 2797.00 ft
 TD 5020.00 ft
 TICKET NO: 10342
 DST #1
 FORMATION: Upper Morrow
 TEST TYPE: CONV

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	13339	13339	2346			PF Fr. 0258 to 0328 hr
SI 45 Range (Psi)	7000.0	7000.0	4995.0	0.0	0.0	IS Fr. 0328 to 0413 hr
SF 45 Clock (hrs)	12 HR	12 HR	Elec			SF Fr. 0413 to 0458 hr
FS 60 Depth (ft)	5015.0	5015.0	4930.0	0.0	0.0	FS Fr. 0458 to 0558 hr

	Field	1	2	3	4
A. Init Hydro	2453.0	2428.0	2429.0	0.0	0.0
B. First Flow	124.0	123.0	35.0	0.0	0.0
B1. Final Flow	166.0	148.0	140.0	0.0	0.0
C. In Shut-in	949.0	904.0	925.0	0.0	0.0
D. Init Flow	239.0	209.0	155.0	0.0	0.0
E. Final Flow	259.0	213.0	201.0	0.0	0.0
F. Fl Shut-in	959.0	901.0	941.0	0.0	0.0
G. Final Hydro	2423.0	2281.0	2389.0	0.0	0.0
Inside/Outside	0	0	I		

T STARTED 0030 hr
 T ON BOTM 0255 hr
 T OPEN 0258 hr
 T PULLED 0558 hr
 T OUT 0845 hr

TOOL DATA-----

Tool Wt. 10000.00 lbs
 Wt Set On Packer 40000.00 lbs
 Wt Pulled Loose 100000.00 lbs
 Initial Str Wt 80000.00 lbs
 Unseated Str Wt 86000.00 lbs
 Bot Choke 0.75 in
 Hole Size 8.88 in
 D Col. ID 2.25 in
 D. Pipe ID 3.80 in
 D.C. Length 450.00 ft
 D.P. Length 4476.00 ft

RECOVERY

Tot Fluid 500.00 ft of 450.00 ft in DC and 50.00 ft in DP
 50.00 ft of Gassy Slightly Oil Cut Mud
 0.00 ft of 40%gas 5%oil 55%mud
 120.00 ft of Gassy Slightly Oil Cut Mud
 0.00 ft of 50%gas 5%oil 45%mud
 330.00 ft of Gassy Oil Cut Mud
 0.00 ft of 40%gas 10%oil 50%mud
 0.00 ft of
 0.00 ft of
 SALINITY 0.00 P.P.M. A.P.I. Gravity 0.00

MUD DATA-----

Mud Type
 Weight 9.30 lb/cf
 Vis. 50.00 S/L
 W.L. 7.20 in3
 F.C. 0.00 in
 Mud Drop Y 100.0 ft
 Amt. of fill 0.00 ft
 Btm. H. Temp. 135.00 F
 Hole Condition Good
 % Porosity 0.00
 Packer Size 6.75 in
 No. of Packers 2
 Cushion Amt. 0.00
 Cushion Type
 Reversed Out N
 Tool Chased N
 Tester Rod Steinbrink
 Co. Rep. Lee T / C Davis
 Contr. Murfin
 Rig # 14
 Unit #
 Pump T.
 STATE OF KANSAS

BLOW DESCRIPTION

Initial Flow:
 Fair to strong blow off bottom in 13 mins.
 Initial Shut In:
 Bled off blow, weak blow built to 1"
 Final Flow:
 Strong blow off bottom in 2 mins
 Final Shut In:
 Bled off blow, No return

RELEASED

JAN 29 1999

FROM CONFIDENTIAL

SAMPLES:
 SENT TO:

Test Successful: Y

JAN 26 1999

CONVENTION DIVISION
 WALLACE, KANSAS

15-199-20251-00-00

*** TOOL DIAGRAM *** CONV

WELL NAME: OFL #5-31
 LOCATION : 31-15S-41W Wallace KS
 TICKET No. 10342 D.S.T. No. 1 DATE 10-7-97
 TOTAL TOOL TO BOTTOM OF TOP PACKERS 31
 INTERVAL TOOL 34
 BOTTOM PACKERS AND ANCHOR
 TOTAL TOOL 65
 DRILL COLLAR ANCHOR IN INTERVAL
 D.C. ANCHOR STND.Stands Single 2 Total 59
 D.P. ANCHOR STND.Stands Single Total
 TOTAL ASSEMBLY 124
 D.C. ABOVE TOOLS.Stands5 Single Total 450
 D.P. ABOVE TOOLS.Stands47 Single 2 Total 4476
 TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5050
 TOTAL DEPTH 5020
 TOTAL DRILL PIPE ABOVE K.B. 30

REMARKS:
 Gas; 500 ml
 Oil; 1000 ml
 Water;
 Mud; 2500 ml
 Total Volume; 4000 ml
 Pressure; 650# psi

P.O. SUB 1' Above 30' DC	4865
C.O. SUB 1'	4895
S.I. TOOL 5'	4901
3' Sampler	4904
HMV 5'	4909
JARS 5'	4914
SAFETY JOINT 2'	4916
PACKER 4'	4920
PACKER 7'	4927
DEPTH	
STUBB 1'	4928
ANCHOR	
Alp. Rec. @ 4930	
26' Perf.	4954
1' CO Sub	4955
59' DC	5014
1' CO Sub	5015
T.C.	
DEPTH	
AK-1 Rec, @ 5015	
BULLNOSE 5'	
T.D.	5020

15-199-20251-00-00

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10342 DST #1 OFL #5-31 DNR Oil & Gas

DATE: 10/07/97

TIME: 00:30:46

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
***** Initial Hydro.	143.00	2429.0	0.0	122.81		
***** Start Flow 1	0.00	35.2	0.0	122.94		
	1.00	41.7	6.5	123.02		
	2.00	42.1	6.9	123.06		
	3.00	45.7	10.5	123.06		
	4.00	50.2	15.0	123.04		
	5.00	54.5	19.3	123.02		
	6.00	59.3	24.1	123.01		
	7.00	63.8	28.6	123.00		
	8.00	67.2	32.0	123.06		
	9.00	70.3	35.1	123.35		
	10.00	74.1	38.9	123.84		
	11.00	78.0	42.8	124.36		
	12.00	82.2	47.0	124.86		
	13.00	86.0	50.8	125.28		
	14.00	90.3	55.1	125.63		
	15.00	93.9	58.7	125.93		
	16.00	97.3	62.1	126.18		
	17.00	100.8	65.6	126.40		
	18.00	103.9	68.7	126.61		
	19.00	106.4	71.2	126.81		
	20.00	108.9	73.7	126.99		
	21.00	112.4	77.2	127.13		
	22.00	114.8	79.6	127.27		
	23.00	117.8	82.6	127.39		
	24.00	120.5	85.3	127.50		
	25.00	122.6	87.4	127.59		
	26.00	124.9	89.7	127.70		
	27.00	127.5	92.3	127.81		
	28.00	129.1	93.9	127.91		
	29.00	131.4	96.2	128.01		
	30.00	133.6	98.5	128.10		
	31.00	135.4	100.2	128.18		
	32.00	137.6	102.4	128.27		
***** End Flow 1	33.00	140.1	104.9	128.36		
***** Start Shutin 1	0.00	140.1	0.0	128.36	0.0000	0.020
	1.00	159.6	19.5	128.42	34.0000	0.025
	2.00	180.4	40.3	128.51	17.5000	0.033
	3.00	201.5	61.4	128.59	12.0000	0.041
	4.00	223.5	83.4	128.67	9.2500	0.050
	5.00	246.4	106.3	128.75	7.6000	0.061
	6.00	270.9	130.7	128.83	6.5000	0.073
	7.00	296.8	156.7	128.89	5.7143	0.088
	8.00	324.5	184.4	128.97	5.1250	0.105
	9.00	353.9	213.7	129.02	4.6667	0.125
	10.00	385.4	245.3	129.07	4.3000	0.149
	11.00	419.2	279.0	129.12	4.0000	0.176
	12.00	454.7	314.6	129.17	3.7500	0.207
	13.00	492.4	352.3	129.23	3.5385	0.242
	14.00	530.9	390.8	129.29	3.3571	0.282
	15.00	570.0	429.9	129.36	3.2000	0.325

15-199-20251-00-00

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10342 DST #1 OFL #5-31 DNR Oil & Gas

DATE: 10/07/97

TIME: 00:30:46

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
	16.00	608.8	468.7	129.44	3.0625	0.371
	17.00	646.2	506.0	129.51	2.9412	0.418
	18.00	680.9	540.8	129.59	2.8333	0.464
	19.00	712.5	572.4	129.64	2.7368	0.508
	20.00	740.6	600.5	129.70	2.6500	0.549
	21.00	764.9	624.8	129.74	2.5714	0.585
	22.00	786.2	646.1	129.79	2.5000	0.618
	23.00	804.8	664.6	129.84	2.4348	0.648
	24.00	820.6	680.4	129.87	2.3750	0.673
	25.00	834.1	694.0	129.91	2.3200	0.696
	26.00	846.0	705.9	129.94	2.2692	0.716
	27.00	856.2	716.0	129.96	2.2222	0.733
	28.00	865.1	725.0	129.99	2.1786	0.748
	29.00	872.7	732.5	130.00	2.1379	0.762
	30.00	879.5	739.3	130.01	2.1000	0.773
	31.00	885.5	745.4	130.03	2.0645	0.784
	32.00	891.0	750.8	130.05	2.0312	0.794
	33.00	895.7	755.6	130.06	2.0000	0.802
	34.00	899.9	759.8	130.08	1.9706	0.810
	35.00	903.6	763.5	130.08	1.9429	0.816
	36.00	907.0	766.8	130.10	1.9167	0.823
	37.00	910.0	769.8	130.11	1.8919	0.828
	38.00	912.8	772.7	130.13	1.8684	0.833
	39.00	915.3	775.2	130.15	1.8462	0.838
	40.00	917.9	777.8	130.15	1.8250	0.843
	41.00	920.1	780.0	130.16	1.8049	0.847
	42.00	922.1	781.9	130.34	1.7857	0.850
	43.00	923.8	783.6	130.18	1.7674	0.853
***** End Shut-in 1	44.00	925.3	785.1	130.19	1.7500	0.856
***** Start Flow 2	0.00	155.3	0.0	130.25		
	1.00	165.2	10	130.37		
	2.00	164.0	8.7	130.51		
	3.00	157.8	2.5	130.63		
	4.00	159.2	3.9	130.74		
	5.00	159.7	4.4	130.84		
	6.00	158.9	3.6	130.92		
	7.00	163.3	8.0	130.99		
	8.00	165.1	9.8	131.07		
	9.00	167.9	12.6	131.14		
	10.00	171.1	15.8	131.22		
	11.00	172.8	17.5	131.29		
	12.00	176.0	20.7	131.37		
	13.00	177.2	21.9	131.45		
	14.00	179.3	24.0	131.53		
	15.00	180.0	24.8	131.60		
	16.00	181.3	26.0	131.68		
	17.00	183.3	28.0	131.76		
	18.00	184.1	28.8	131.82		
	19.00	185.8	30.5	131.88		
	20.00	186.2	30.9	131.93		
	21.00	187.3	32.0	131.98		

15-199-20251-00-00

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10342 DST #1 OFL #5-31 DNR Oil & Gas
 DATE: 10/07/97 TIME: 00:30:46

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dt)/dt	P^2/10^6
22.00	188.1	32.8	132.04		
23.00	188.3	33.0	132.09		
24.00	188.5	33.2	132.16		
25.00	188.9	33.6	132.21		
26.00	190.3	35.0	132.27		
27.00	190.5	35.2	132.33		
28.00	190.2	34.9	132.38		
29.00	191.3	36.0	132.43		
30.00	192.1	36.8	132.46		
31.00	192.4	37.1	132.50		
32.00	192.6	37.4	132.54		
33.00	193.0	37.7	132.58		
34.00	193.1	37.8	132.62		
35.00	194.4	39.1	132.66		
36.00	194.7	39.4	132.71		
37.00	195.4	40.1	132.76		
38.00	196.5	41.2	132.81		
39.00	197.8	42.5	132.87		
40.00	198.0	42.7	132.94		
41.00	200.0	44.7	133.00		
42.00	200.8	45.5	133.02		
43.00	201.4	46.1	133.07		

***** End Flow 2

***** Start Shutin 2

0.00	201.4	0.0	133.07	0.0000	0.041
1.00	208.2	6.8	133.11	77.0000	0.043
2.00	231.5	30.1	133.14	39.0000	0.054
3.00	252.0	50.6	133.19	26.3333	0.064
4.00	272.7	71.3	133.24	20.0000	0.074
5.00	294.3	92.9	133.30	16.2000	0.087
6.00	316.9	115.5	133.37	13.6667	0.100
7.00	341.2	139.8	133.45	11.8571	0.116
8.00	367.6	166.2	133.53	10.5000	0.135
9.00	395.7	194.3	133.61	9.4444	0.157
10.00	426.1	224.7	133.70	8.6000	0.182
11.00	459.0	257.6	133.78	7.9091	0.211
12.00	494.9	293.5	133.86	7.3333	0.245
13.00	532.7	331.3	133.96	6.8462	0.284
14.00	572.0	370.6	134.02	6.4286	0.327
15.00	612.1	410.7	134.07	6.0667	0.375
16.00	650.5	449.2	134.17	5.7500	0.423
17.00	686.4	485.0	134.24	5.4706	0.471
18.00	717.7	516.3	134.31	5.2222	0.515
19.00	744.7	543.3	134.36	5.0000	0.555
20.00	767.7	566.4	134.42	4.8000	0.589
21.00	787.0	585.6	134.47	4.6190	0.619
22.00	803.6	602.2	134.51	4.4545	0.646
23.00	817.7	616.3	134.55	4.3043	0.669
24.00	830.2	628.8	134.60	4.1667	0.689
25.00	841.2	639.8	134.61	4.0400	0.708
26.00	850.6	649.2	134.66	3.9231	0.723
27.00	859.0	657.6	134.68	3.8148	0.738
28.00	866.2	664.8	134.71	3.7143	0.750

15-199-20251-00-00

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10342 DST #1 OFL #5-31 DNR Oil & Gas
DATE: 10/07/97 TIME: 00:30:46

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
29.00	872.8	671.4	134.73	3.6207	0.762
30.00	878.8	677.4	134.75	3.5333	0.772
31.00	884.3	682.9	134.77	3.4516	0.782
32.00	889.0	687.6	134.78	3.3750	0.790
33.00	893.5	692.1	134.80	3.3030	0.798
34.00	897.4	696.0	134.82	3.2353	0.805
35.00	901.2	699.8	134.83	3.1714	0.812
36.00	904.7	703.3	134.84	3.1111	0.818
37.00	907.6	706.2	134.85	3.0541	0.824
38.00	910.2	708.8	134.84	3.0000	0.829
39.00	913.0	711.6	134.86	2.9487	0.834
40.00	915.4	714.0	134.86	2.9000	0.838
41.00	917.5	716.1	134.87	2.8537	0.842
42.00	919.4	718.0	134.88	2.8095	0.845
43.00	921.3	719.9	134.89	2.7674	0.849
44.00	923.1	721.7	134.90	2.7273	0.852
45.00	924.7	723.3	134.90	2.6889	0.855
46.00	926.1	724.7	134.91	2.6522	0.858
47.00	927.6	726.2	134.91	2.6170	0.860
48.00	928.9	727.5	134.93	2.5833	0.863
49.00	930.2	728.9	134.93	2.5510	0.865
50.00	931.4	730.0	134.94	2.5200	0.868
51.00	932.5	731.1	134.96	2.4902	0.870
52.00	933.5	732.1	134.97	2.4615	0.871
53.00	934.5	733.1	134.97	2.4340	0.873
54.00	935.5	734.1	134.99	2.4074	0.875
55.00	936.4	735.0	134.99	2.3818	0.877
56.00	937.2	735.8	135.01	2.3571	0.878
57.00	938.0	736.6	135.01	2.3333	0.880
58.00	938.7	737.3	135.02	2.3103	0.881
59.00	939.4	738.0	135.02	2.2881	0.883
60.00	940.1	738.7	135.04	2.2667	0.884
61.00	940.6	739.2	135.03	2.2459	0.885
62.00	941.3	739.9	135.05	2.2258	0.886
***** End Shut-in 2					
***** Final Hydro.	331.00	2389.7	0.0	135.16	

15-199-20251-00-00

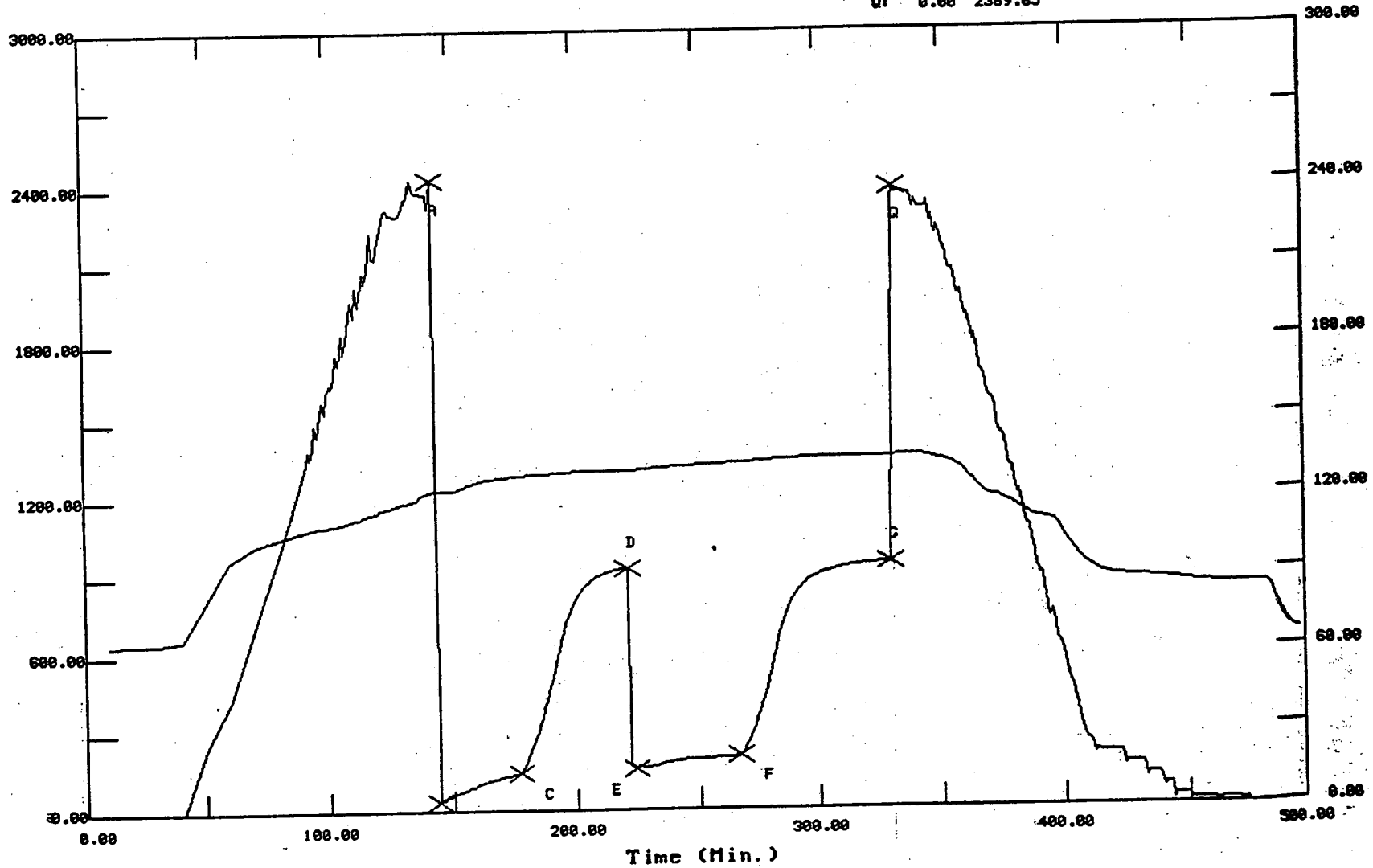
TEST HISTORY

10342 DST #1 OFL #5-31 DNR Oil & Gas

Flag Points

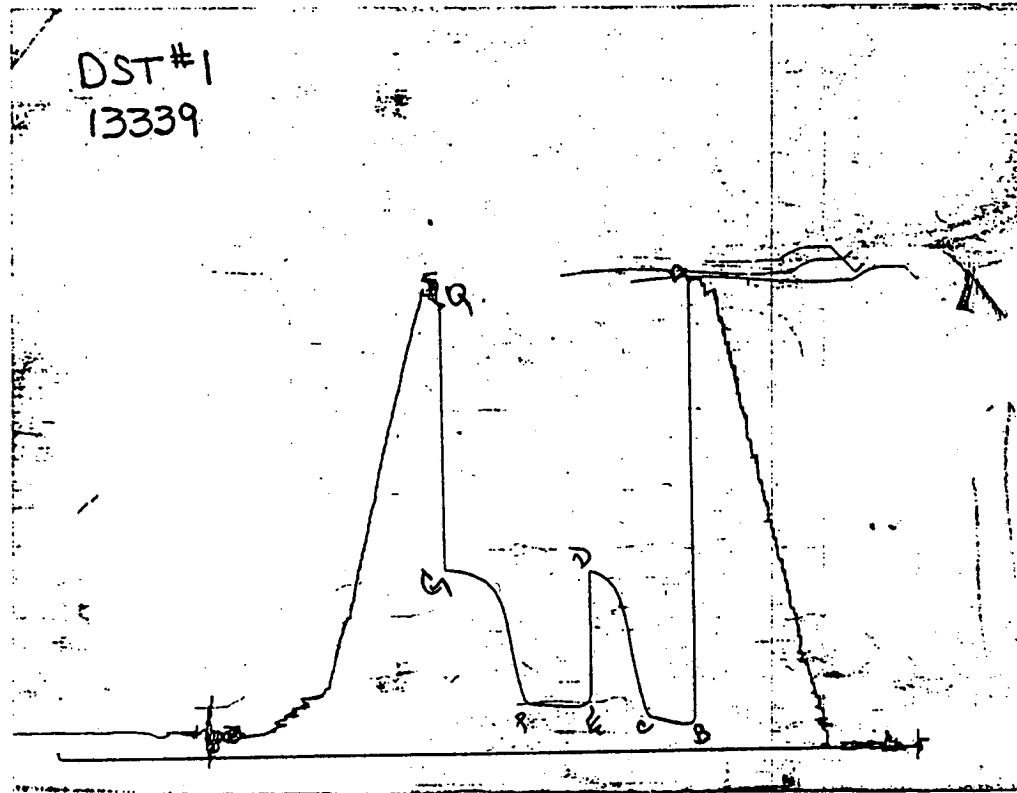
	t (Min.)	P (PSig)
A:	0.00	2429.05
B:	0.00	35.19
C:	33.00	140.13
D:	44.00	925.26
E:	0.00	155.30
F:	43.00	201.40
G:	62.00	941.28
Q:	0.00	2389.65

Pressure (PSig)



15-199-20251-00-00

CHART PAGE



This is a photocopy of the actual AK-1 recorder chart

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

15-199-20251-00-00

Test Ticket

No 10342

Well Name & No. DFL #5-31 Test No. 1 Date 10-7-97
 Company DNR Oil & Gas, Inc. Zone Tested Upper Morrow
 Address 655 Broadway Ste 525 Denver, CO 80203 Elevation 3807 KB 3197 GL
 Co. Rep / Geo. R. Lee Tucker / C. Davis Cont. Murfin #14 Est. Ft. of Pay Por. %
 Location: Sec. 31 Twp. 15^s Rge. 41^w Co. Wallace State KS
 No. of Copies 5 Distribution Sheet (Y, N) N Turnkey (Y, N) N Evaluation (Y, N)

Interval Tested 4927 - 5020 Initial Str Wt./Lbs. 80,000 Unseated Str Wt./Lbs. 86,000
 Anchor Length 93' Wt. Set Lbs. 40,000 Wt. Pulled Loose/Lbs. 100,000
 Top Packer Depth 4920 Tool Weight 10,000
 Bottom Packer Depth 4927 Hole Size — 7 7/8" Rubber Size — 6 3/4"
 Total Depth 5020 Wt. Pipe Run Drill Collar Run 4476'
 Mud Wt. 9.3 LCM 1/2" / 66 Vis. 50 Wt. 7.2 Drill Pipe Size 4 1/2" KH Ft. Run H-90 / 450'
 Blow Description IF: Fair to strong blow off bttm in 13 mins.
IST: Bled off blow - weak blow built to 1"
FF: Strong blow off bttm in 2 mins
FST: Bled off blow - no return blow.

Recovery — Total Feet	GIP	Ft. in DC	Ft. in DP	%gas	%oil	%water	%mud
500'	—	450'	50'	40	5	—	55
Rec. 50'	Feet Of <u>GSDCM</u>	40	5	—	55	%mud	
Rec. 120'	Feet Of <u>GDCM</u>	50	5	—	45	%mud	
Rec. 330'	Feet Of <u>GDCM</u>	40	10	—	50	%mud	
Rec. <u> </u>	Feet Of <u> </u>	%gas	%oil	%water	%mud		
Rec. <u> </u>	Feet Of <u> </u>	%gas	%oil	%water	%mud		

BHT 135° °F Gravity °API D@ °F Corrected Gravity °API
 RW 0 @ °F Chlorides ppm Recovery Chlorides 4,000 ppm System
 (A) Initial Hydrostatic Mud 2453 | 2429 PSI Recorder No. 2346 T-Started 0030 (GOT)
 (B) First Initial Flow Pressure 124 | 35 PSI (depth) 4930 T-Open 0258
 (C) First Final Flow Pressure 166 | 140 PSI Recorder No. 13339 T-Pulled 0558
 (D) Initial Shut-in Pressure 949 | 925 PSI (depth) 5015 T-Out 0845
 (E) Second Initial Flow Pressure 239 | 155 PSI Recorder No.
 (F) Second Final Flow Pressure 259 | 201 PSI (depth)
 (G) Final Shut-in Pressure 959 | 941 PSI Initial Opening 30 Test
 (H) Final Hydrostatic Mud 2423 | 2389 PSI Initial Shut-in 45 Jars X

Mech. AK-1 ALP Elec. Final Flow 45 Safety Joint X
 Final Shut-in 60 Straddle
 Circ. Sub X N/C
 Sampler X
 Shale Extra Packer X
 Elect. Rec. X
 Other
 TOTAL PRICE \$

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By [Signature]
 Our Representative Rod Steinbrink

15-199-20251-00-00

TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 10342 Date 10-7-97
 Company Name DNR Oil & Gas, Inc. Cont. Murfin #14
 Lease DEL # 5-31 Test No. #1 Upper Morrow
 County Wallace KS. Sec. 31 Twp. 15^S Rng. 41^W

SAMPLER RECOVERY

Gas 500 ML
 Oil 1,000 ML
 Mud 2,500 ML
 Water — ML
 Other _____ ML
 Pressure 650 # PSI
 Total 4,000 ML

PIT MUD ANALYSIS

Chlorides 4,000 ppm.
 Resistivity _____ ohms @ _____ F
 Viscosity 50
 Mud Weight 9.3
 Filtrate 7.2
 Other LCM 1/2# / bbl.

SAMPLER ANALYSIS

Resistivity _____ ohms @ _____ F
 Chlorides _____ ppm.
 Gravity _____ corrected @ 60 F

PIPE RECOVERY

TOP
 Resistivity _____ ohms @ _____ F
 Chlorides _____ ppm.
 MIDDLE
 Resistivity _____ ohms @ _____ F
 Chlorides _____ ppm.
 BOTTOM
 Resistivity _____ ohms @ _____ F
 Chlorides _____ ppm.

TRILOBITE TESTING L.L.C.

15-199-20251-00-00

DATE 10-7-97

DRILLER : DNR Oil & Gas Inc.
 WELL NAME: OFL #5-21
 LOCATION : 21-158-41W Wallace KS
 INTERVAL : 5028.00 To 5090.00 ft

KB 3807.00 ft
 GR 3797.00 ft
 TD 5090.00 ft

TICKET NO: 10343 DST #2
 FORMATION: Upper Morrow
 TEST TYPE: CONV

RECORD DATA

mins	Field	1	2	3	4	TIME DATA		
2	Rec.	13339		2346		PF Fr.	2343	to hr
0	Range(Psi)	4025.0	0.0	4995.0	0.0	IS Fr.		to hr
0	Clock(hrs)	12 HR		Elec		SF Fr.		to hr
0	Depth(ft)	5085.0	0.0	5030.0	0.0	FS Fr.		to hr

	Field	1	2	3	4
Init Hydro	2523.0	0.0	2427.0	0.0	0.0
First Flow	0.0	0.0	0.0	0.0	0.0
Final Flow	0.0	0.0	0.0	0.0	0.0
In Shut-in	0.0	0.0	0.0	0.0	0.0
Init Flow	0.0	0.0	0.0	0.0	0.0
Final Flow	0.0	0.0	0.0	0.0	0.0
Fl Shut-in	0.0	0.0	0.0	0.0	0.0
Final Hydro	2503.0	0.0	2413.0	0.0	0.0
Inside/Outside	0		I		

T STARTED 2055 hr
 T ON BOTM 2340 hr
 T OPEN 2343 hr
 T PULLED 2350 hr
 T OUT 0300 hr

TOOL DATA

Tool Wt. 5000.00 lbs
 Wt Set On Packer 40000.00 lbs
 Wt Pulled Loose 90000.00 lbs
 Initial Str Wt 80000.00 lbs
 Unseated Str Wt 80000.00 lbs
 Bot Choke 0.75 in
 Hole Size 8.88 in
 D Col. ID 2.25 in
 D. Pipe ID 3.80 in
 D.C.. Length 477.00 ft
 D.P. Length 4535.00 ft

RECOVERY

Total Fluid 450.00 ft of 450.00 ft in DC and 0.00 ft in DP
 150.00 ft of Drilling Mud
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of

SALINITY 0.00 P.P.M. A.P.I. Gravity 0.00

MUD DATA

Mud Type Chemical
 Weight 9.30 lb/cf
 Vis. 50.00 S/L
 W.L. 7.20 in3
 F.C. 0.00 in
 Mud Drop Y 100.0 ft

BLOW DESCRIPTION

Initial Flow:
 Packer failed 30-45 secs.
 tried to reset w/no help

TOH w/Tool

Amt. of fill 0.00 ft
 Btm. H. Temp. 125.00 F
 Hole Condition Good
 % Porosity 0.00
 Packer Size 6.75 in
 No. of Packers 2
 Cushion Amt. 0.00
 Cushion Type
 Reversed Out N
 Tool Chased N
 Tester Rod Steinbrink
 Co. Rep. L.Tucker/C.Davis
 Contr. Murfin
 Rig # 14
 Unit #
 Pump T.

SAMPLES:
 SENT TO:

Test Successful: N

15-199-20251-00-00

*** TOOL DIAGRAM *** CONV

WELL NAME: OFL #5-31

LOCATION : 31-15S-41W Wallace KS

TICKET No. 10343 D.S.T. No. 2 DATE 10-7-97

TOTAL TOOL TO BOTTOM OF TOP PACKERS 31

INTERVAL TOOL 31

BOTTOM PACKERS AND ANCHOR

TOTAL TOOL 62

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single 1 Total 31'

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY 93

D.C. ABOVE TOOLS.Stands5 Single 1 Total 477

D.P. ABOVE TOOLS.Stands48 Single 1 Total 4535

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5106

TOTAL DEPTH 5090

TOTAL DRILL PIPE ABOVE K.B. 16

REMARKS:

Gas;
Oil;
Water;
Mud; 4000 ml

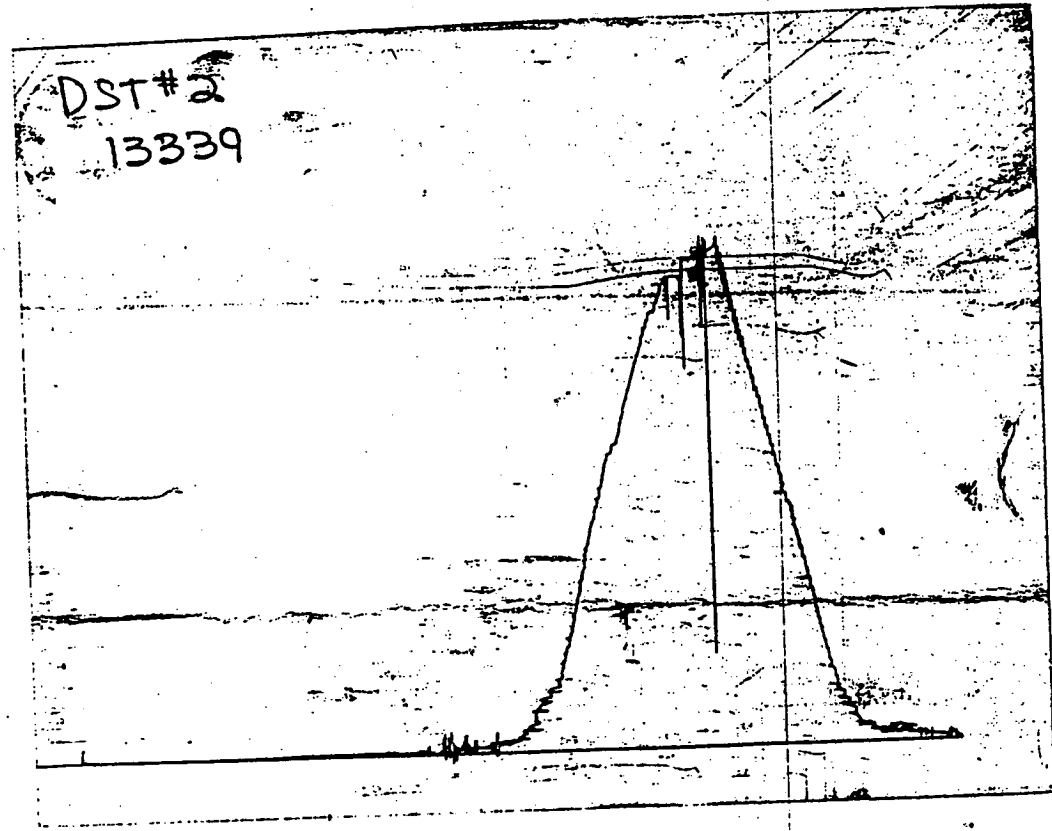
Total Volume; 400 ml

Pressure; 0 psi

P.O. SUB 1' Above 30' DC	4966
C.O. SUB 1'	4996
S.I. TOOL 5'	5002
Sampler 3'	5005
HMV 5'	5010
JARS 5'	5015
SAFETY JOINT 2'	5017
PACKER 4'	5021
PACKER 7'	5028
DEPTH	
STUBB 1'	5029
ANCHOR	
Alp. Rec. @ 5030	
23' Perf.	5052
1' CO Sub	5053
31' DC	5084
1' CO Sub	5085
T.C.	
DEPTH	
AK-1 Rec. @ 5085	
BULLNOSE 5'	
T.D.	5090

00-00-15 P02 51-00-00
15-199-202 51-00-00

CHART PAGE



This is a photocopy of the actual AK-1 recorder chart

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

15-199-20251-00-00

Test Ticket

Nº 10343

Well Name & No. OFL #5-31 Test No. 2 Date 10-7-97
 Company D N R Oil & Gas, Inc. Zone Tested Lower Morrow
 Address 655 Broadway Ste 525 Denver, CO 80203 Elevation 3807 KB 3797 GL
 Co. Rep / Geo. Lee Tucker / C. Davis Cont. Murfin #14 Est. Ft. of Pay Por. %
 Location: Sec. 31 Twp. 15^S Rge. 41^W Co. Wallace State KS
 No. of Copies 5 Distribution Sheet (Y, N) N Turnkey (Y, N) N Evaluation (Y, N)

Interval Tested 5028 - 5090 Initial Str Wt/Lbs. 80,000 Unseated Str Wt/Lbs. 80,000
 Anchor Length 62' Wt. Set Lbs. 40,000 Wt. Pulled Loose/Lbs. 90,000
 Top Packer Depth 5021 Tool Weight 5,000
 Bottom Packer Depth 5028 Hole Size — 7 7/8" Rubber Size — 6 3/4"
 Total Depth 5090 Wt. Pipe Run Drill Collar Run H-90 477'
 Mud Wt. 9.3 LCM 1/2# Vis. 50 WL 7.2 Drill Pipe Size 4 1/2" XH Fl. Run 4535'
 Blow Description IF: Packer failed 30-45 secs. tried to reset - no help.
ToH w/Tool

Recovery — Total Feet	GIP	Ft. in DC	Ft. in DP	%gas	%oil	%water	%mud
<u>450'</u>	<u> </u>	<u>450'</u>	<u> </u>				
Rec. <u> </u> Feet Of <u> </u>							
Rec. <u>450'</u> Feet Of <u>Drilg. Mud</u>							
Rec. <u> </u> Feet Of <u> </u>							
Rec. <u> </u> Feet Of <u> </u>							

BHT 125° °F Gravity °API D@ °F Corrected Gravity °API
 RW @ °F Chlorides ppm Recovery Chlorides 4,000 ppm System

(A) Initial Hydrostatic Mud 2523 2427 PSI Recorder No. 2346 T-Started 2055 (CDT)
 (B) First Initial Flow Pressure PSI (depth) 5030 T-Open 2343
 (C) First Final Flow Pressure PSI Recorder No. 13339 T-Pulled 2350
 (D) Initial Shut-in Pressure PSI (depth) 5085 T-Out 03:00
 (E) Second Initial Flow Pressure PSI Recorder No.
 (F) Second Final Flow Pressure PSI (depth)
 (G) Final Shut-in Pressure PSI Initial Opening 2 Test Misrun
 (H) Final Hydrostatic Mud 2503 2413 PSI Initial Shut-in Jars X

Mech. AK-1 Elec. ALP

Final Flow Safety Joint X
 Final Shut-in Straddle
 Circ. Sub X N/C
 Sampler X
 Shale Extra Packer X

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By
Our Representative Rod Steinbrink

Elect. Rec. X
Other
TOTAL PRICE \$

15-199-20251-00-00

TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 10343 Date 10-7-97
 Company Name DNR Oil & Gas Cont. Murfin #14
 Lease DFL #5-31 Test No. # 2 Lower Morrow
 County Wallace KS. Sec. 31 Twp. 15^s Rng. 41^w

SAMPLER RECOVERY

Gas _____ ML
 Oil _____ ML
 Mud 4,000 ML
 Water _____ ML
 Other _____ ML
 Pressure 0 PSI
 Total 4,000 ML

PIT MUD ANALYSIS

Chlorides 4.000 ppm
 Resistivity _____ ohms @ _____
 Viscosity 50
 Mud Weight 9.3
 Filtrate 7.2
 Other LCM 1/2" / bbl.

SAMPLER ANALYSIS

Resistivity _____ ohms @ _____ F
 Chlorides _____ ppm
 Gravity _____ corrected @ 60 F

PIPE RECOVERY

TOP
 Resistivity _____ ohms @ _____
 Chlorides _____ ppm
 MIDDLE
 Resistivity _____ ohms @ _____
 Chlorides _____ ppm
 BOTTOM
 Resistivity _____ ohms @ _____
 Chlorides _____ ppm