

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

Operator: License # 30425

Name: DNR Oil & Gas Inc.

Address 655 Broadway - Suite 525

City/State/Zip Denver, CO 80203

Purchaser: _____

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

New Well Re-Entry Workover

Oil SWD SLOW Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, WSU, Expl., Cathodic, etc)

If Workover/Reentry: Old Well Info as follows:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

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

1/8/98 1/16/98 3/13/98
 Spud Date Date Reached TD Completion Date

API NO. 15- 199-202690000

County Wallace County

- NE - SW - NW Sec. 32 Twp. 15S Rge. 41 X ^E _W

1830 Feet from S(N) (circle one) Line of Section

1110 Feet from E(W) (circle one) Line of Section

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

Lease Name Kuder Well # 4-32

Field Name Mt. Sunflower S.E.

Producing Formation Morrow

Elevation: Ground 3787 KB 3797

Total Depth 5131 PBTD 5093

Amount of Surface Pipe Set and Cemented at 371 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set 1989 Feet

If Alternate II completion, cement circulated from 0

feet depth to 1989 w/ 225 sx cnt.

Drilling Fluid Management Plan Att 2, 6-11-98 U.C.
(Data must be collected from the Reserve Pit)

Chloride content N/A ppm Fluid volume 700 bbls

Dewatering method used Cut windows, let dry

Location of fluid disposal if hauled offsite:
MAY 04 1998

Operator Name 05-04-98

Lease Name Wichita, Kans. License No. _____

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

County _____ Docket No. _____

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature C.B.A.

Title President Date April 27, 1998

Subscribed and sworn to before me this 27th day of April, 1998

Notary Public Carrie S. Witzel

Date Commission Expires April 22, 1999

No Geologists Report Made

K.C.C. OFFICE USE ONLY		
F	<input type="checkbox"/>	Letter of Confidentiality Attached
C	<input checked="" type="checkbox"/>	Wireline Log Received
C	<input 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)

ORIGINAL

Operator Name DNR OIL & GAS INC.

Lease Name Kuder

Well 4-32

Sec. 32 Twp. 15S Rge. 31

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 Log
Compensated Density Neutron Log

<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datums <input type="checkbox"/> Sample		
Name	Top	Datum
B/Anhydrite	2756	+1041
Topeka	3937	-140
Heebner	4094	-297
Lansing	4206	-409
Marmaton	4518	-721
Cherokee	4719	-922
Morrow Shale	4962	-1165
Morrow Lime	5067	-1270

CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12 1/4"	8 5/8"	24.1	371	60/40 Poz	260	4%CaCl, 2%Gel
Production	7 7/8"	5 1/2"	15.5	5130	Standard	175	5%KCl, 3/8% Halad 322

ADDITIONAL CEMENTING/SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input checked="" type="checkbox"/> Perforate <input checked="" type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone	1989	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	5054-60	

TUBING RECORD Size 2 7/8 Set At 5080 Packer At 5 Liner Run Yes No

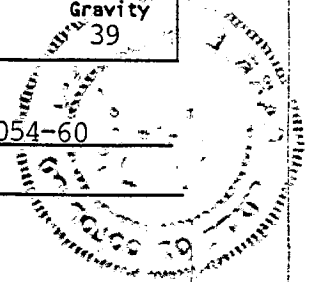
Date of First, Resumed Production, SWD or Inj. 3/13/98 Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours Oil 35 Bbls. Gas 20 Mcf Water 0 Bbls. Gas-Oil Ratio Gravity 39

Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACO-18.)

METHOD OF COMPLETION Open Hole Perf. Dually Comp. Commingled 5054-60

Production Interval Other (Specify) _____



ALLIED CEMENTING CO., INC. 9924

Federal Tax I.D.#

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

ORIGINAL

SERVICE POINT:

DATE <u>1-8-98</u>	SEC. <u>31</u>	TWP. <u>15s</u>	RANGE <u>4/w</u>	CALLED OUT	ON LOCATION <u>11:30 PM</u>	JOB START <u>1:40 AM</u>	JOB FINISH <u>2:00 AM</u>
LEASE <u>AKOER</u>	WELL # <u>2-32</u>	LOCATION <u>Sharon Springs 15s 8 1/2 W 1/4 N</u>			COUNTY <u>Wallace</u>	STATE <u>KS</u>	

OLD OR NEW (Circle one) NEW

CONTRACTOR Murfin Drlg Rig 14

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 377'

CASING SIZE 8 5/8 DEPTH 377'

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT 34.55'

CEMENT LEFT IN CSG. 34.55'

PERFS.

DISPLACEMENT

OWNER same

CEMENT AMOUNT ORDERED 260 sks 60/40 P02
4% CL 2% Gel 1/4" Fl 5" d

COMMON @

POZMIX @

GEL @

CHLORIDE @

HANDLING @

MILEAGE @

TOTAL

EQUIPMENT

PUMP TRUCK CEMENTER Dean

102 HELPER Walt

BULK TRUCK

212 DRIVER Andrew

BULK TRUCK

DRIVER

REMARKS:

Cement did circulate

Thank you

SERVICE

DEPTH OF JOB 377'

PUMP TRUCK CHARGE

EXTRA FOOTAGE @

MILEAGE @

PLUG Surface @

TOTAL

CHARGE TO: DNR Oil & Gas Inc

STREET

CITY STATE ZIP

FLOAT EQUIPMENT

1 Baffle Plate @

1 Centralizer @

1 Box Baker Lock @

TOTAL

To Allied Cementing Co., Inc.

You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND CONDITIONS" listed on the reverse side.

SIGNATURE [Signature]

TAX

TOTAL CHARGE

DISCOUNT IF PAID IN 30 DAYS

JAMES KEMNER
PRINTED NAME



JOB LOG 4239-5

15-199-20269-00-00

TICKET #	196227	TICKET DATE	1-19-80
BDA / STATE		COUNTY	
PSL DEPARTMENT			
CUSTOMER REP / PHONE			
API / UWI #			
JOB PURPOSE CODE			

REGION	North America	NWA/COUNTRY	
MBU ID / EMP #		EMPLOYEE NAME	
LOCATION		COMPANY	
TICKET AMOUNT		WELL TYPE	
WELL LOCATION		DEPARTMENT	
LEASE / WELL #	Kuder #4-32	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	
--	--	--	--	--	--	--	--

ORIGINAL

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESS. (psi)		JOB DESCRIPTION / REMARKS
				v.T.	C	Tbg	Csg	
	11:00	<u>CSI</u>						Called Out
	18:30							On Loc - Rig Low Down DP + Nipple Down BOP
	21:15							Start 5 1/2" x 17 1/2" Csg in Hole w/
								1cc Insult Flat Shoe 7/8" up
								1cc DV @ 1988 on 79" H
								2cc Cement Baskets
								1cc Cont. (Wash. A. 1-2-5-8-79+30)
	24:20							Csg in Hole - Hookup Swaggs to 5' and Down - 7' + TD (7131')
								Hook up Rotating Head PL, + Manifold
	24:45							Break Circ 7/8" Pump - Circ 3 Rotator 1 Hr.
								Hook up to PT
	01:07					100		Start Pump Mud Flush
	01:50		12			150		Mud Flush in - Start Close Flush
	01:53		20			200		Flush in
	02:05					250		Start Pump Cont - 150sk Std 1/5" KCh + 1/4" Hold - 302
	02:15		32			150		Finish Pump Cont
								Release Latch Down Plug - Wash out Pump + Lines
	02:12					150		Start Digal (70 BBL Water / 251 BBL Mud)
	02:30		121			550		Finish Digal (Last Returns 7/8" BBL Digal in - Circ Last 30 BBL Digal)
	02:35					1400		Plug Landed
	02:37					0		Release Ptes - Flat Held
	02:40							Drop Free Fall Plug
	03:00					700		Open DV - Rig Circ 4 Hr.
								Hook up to PT
	03:16					50		Start Pump Flush (FW) 3 BBL
	07:20					50		Start Pump Cont 190sk Mid Cont 1/3" CC + 1/2" Floack (Misc 11')
								200sk Mid Cont 1/3" CC + 1/2" Floack (Misc 12')
								Plug Rot Hold 7/8" + 1/2" Misc Hole 1/10" H
	07:40					100		Finish Pump Cont
								Release Closing Plug
	07:46					0		Start Digal
	07:54					00		Finish Digal - Cont Dig Circ - 10sk
	07:57					3000		Plug Landed - DV Flood
	07:59							Release Ptes - OK

STATE OF TEXAS
HALLIBURTON

H. W. A.

15-199-20269-00-00

Precision Core Analysis, Inc.

ORIGINAL

DNR Oil and Gas, Inc.

Kuder 4-32

Sec. 32 T15S R41W

Wallace County, Kansas

15-199-20269

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WICHITA DIVISION
Wichita, Kansas

The analyses, interpretations, and/or opinions expressed in this report represent the best judgment of Precision Core Analysis, Inc. Precision Core Analysis, Inc. assumes no responsibility and makes no expressed warranties of any kind regarding the productivity, proper operation, or profitability of any action taken upon which this is used or relied upon.

Precision Core Analysis, Inc.

DNR Oil and Gas, Inc.
 Kuder 4-32
 Sec. 32 T15S R41W
 Wallace County, Kansas

Job: 9802
 Date: 05-Feb-98

Reference Number	Depth (ft)	Permeability		Helium Porosity (%)	Saturations		Grain Density (g/cc)	Sample Description
		Air (md)	Klink (md)		Water (%)	Oil (%)		
<i>Core No. 1 Morrow Fm. 5050.0'-5082.0' Rec. 32.0'/32.0'</i>								
1	5051.8	188.	168.	11.0	42.6	12.7	2.65	Sst f-crs gr qtz ovrghs
2	5052.7	3030.	2910.	20.2	33.1	3.9	2.64	Sst f-m gr qtz ovrghs sl mic
3	5053.4	5610.	5440.	19.8	28.7	13.5	2.64	Sst f-m gr qtz ovrghs sl mic
4	5054.5	9670.	9430.	18.4	38.6	8.4	2.64	Sst f-crs gr qtz ovrghs sl mic
5	5055.6	3080.	2960.	21.0	29.9	16.7	2.64	Sst f-v crs gr qtz ovrghs
6	5056.4	6170.	5990.	21.8	31.8	10.4	2.64	Sst f-v crs gr qtz ovrghs
7	5057.5	10400.	10100.	22.0	19.2	9.9	2.64	Sst f-v crs gr qtz ovrghs mic
8	5058.4	5810.	5640.	17.3	41.8	17.0	2.64	Sst f-v crs gr qtz ovrghs mic
9	5059.6	4090.	3940.	18.7	34.7	11.9	2.64	Sst f-v crs gr qtz ovrghs mic
10	5060.5	2210.	2120.	18.6	30.3	16.7	2.64	Sst f-v crs gr qtz ovrghs mic
11	5061.3	0.210	0.132	1.4	48.6	6.8	2.66	Sst f-crs gr pyr clas

RECEIVED
 STATE CORPORATION COMMISSION
 TATAM

Precision Core Analysis, Inc.

DNR Oil and Gas, Inc.
 Kuder 4-32
 Sec. 32 T15S R41W
 Wallace County, Kansas

Job: 9802
 Date: 05-Feb-98

Depth (ft)	Mini-Perm (md)	Depth (ft)	Mini-Perm (md)	Depth (ft)	Mini-Perm (md)
<i>Mini-Permeameter Analyses</i>					
5051.5	209	5054.4	1793	5057.3	7444
5051.6	2.57	5054.5	1646	5057.4	3711
5051.7	142	5054.6	4277	5057.5	3685
5051.8	229	5054.7	7135	5057.6	>10000
5051.9	209	5054.8	7278	5057.7	1844
5052.0	554	5054.9	892	5057.8	7437
5052.1	488	5055.0	1338	5057.9	7405
5052.2	1038	5055.1	1125	5058.0	>10000
5052.3	673	5055.2	1432	5058.1	>10000
5052.4	332	5055.3	972	5058.2	2199
5052.5	1081	5055.4	1805	5058.3	>10000
5052.6	491	5055.5	57.2	5058.4	5530
5052.7	1446	5055.6	3676	5058.5	1662
5052.8	1449	5055.7	5541	5058.6	>10000
5052.9	3090	5055.8	40.8	5058.7	7287
5053.0	0.25	5055.9	3684	5058.8	1691
5053.1	435	5056.0	1003	5058.9	>10000
5053.2	1550	5056.1	1236	5059.0	4368
5053.3	988	5056.2	3365	5059.1	>10000
5053.4	1206	5056.3	>10000	5059.2	7301
5053.5	1465	5056.4	276	5059.3	4383
5053.6	4354	5056.5	>10000	5059.4	>10000
5053.7	1019	5056.6	4449	5059.5	3075
5053.8	56.4	5056.7	5536	5059.6	1668
5053.9	376	5056.8	3148	5059.7	4313
5054.0	530	5056.9	2452	5059.8	616
5054.1	590	5057.0	3694	5059.9	1958
5054.2	900	5057.1	>10000	5060.0	765
5054.3	3617	5057.2	7390	5060.1	1267

15-199-20269-00-00
Precision Core Analysis, Inc.

DNR Oil and Gas, Inc.
Kuder 4-32
Sec. 32 T15S R41W
Wallace County, Kansas

Job: 9802
Date: 05-Feb-98

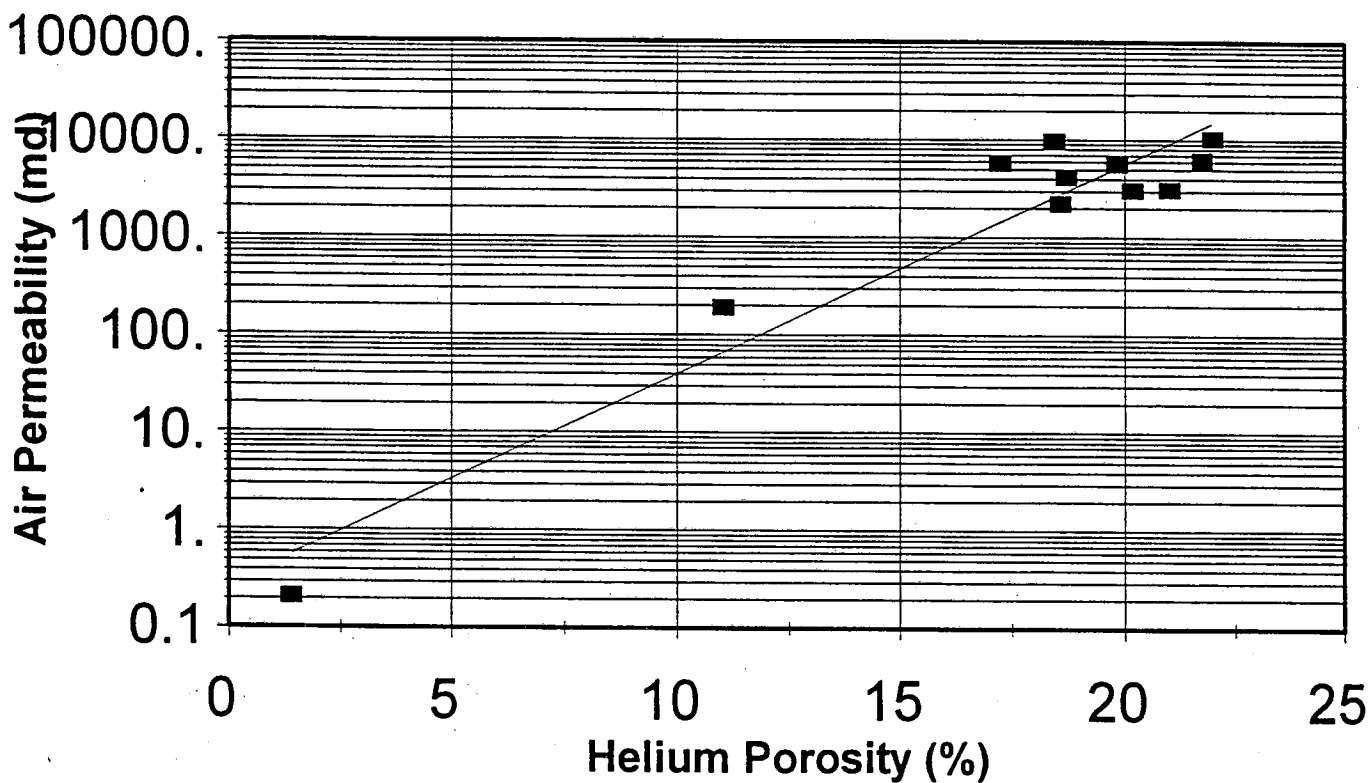
Depth (ft)	Mini-Perm (md)	Depth (ft)	Mini-Perm (md)	Depth (ft)	Mini-Perm (md)
<i><u>Mini-Permeameter Analyses</u></i>					
5060.2	983				
5060.3	2182				
5060.4	2194				
5060.5	603				
5060.6	739				
5060.7	716				
5060.8	5331				
5060.9	2144				
5061.0	422				
5061.1	0.64				
5061.2	0.20				
5061.3	0.27				
5061.4	5.34				
5061.5	11.4				
5061.6	5.16				
5061.7	1.22				
5061.8	4.88				
5061.9	1.53				

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Kuder 4-32
Sec. 32 T15S R41W
Wallace County, Kansas

Job: 9802
Date: 05-Feb-98

Air Permeability vs Helium Porosity



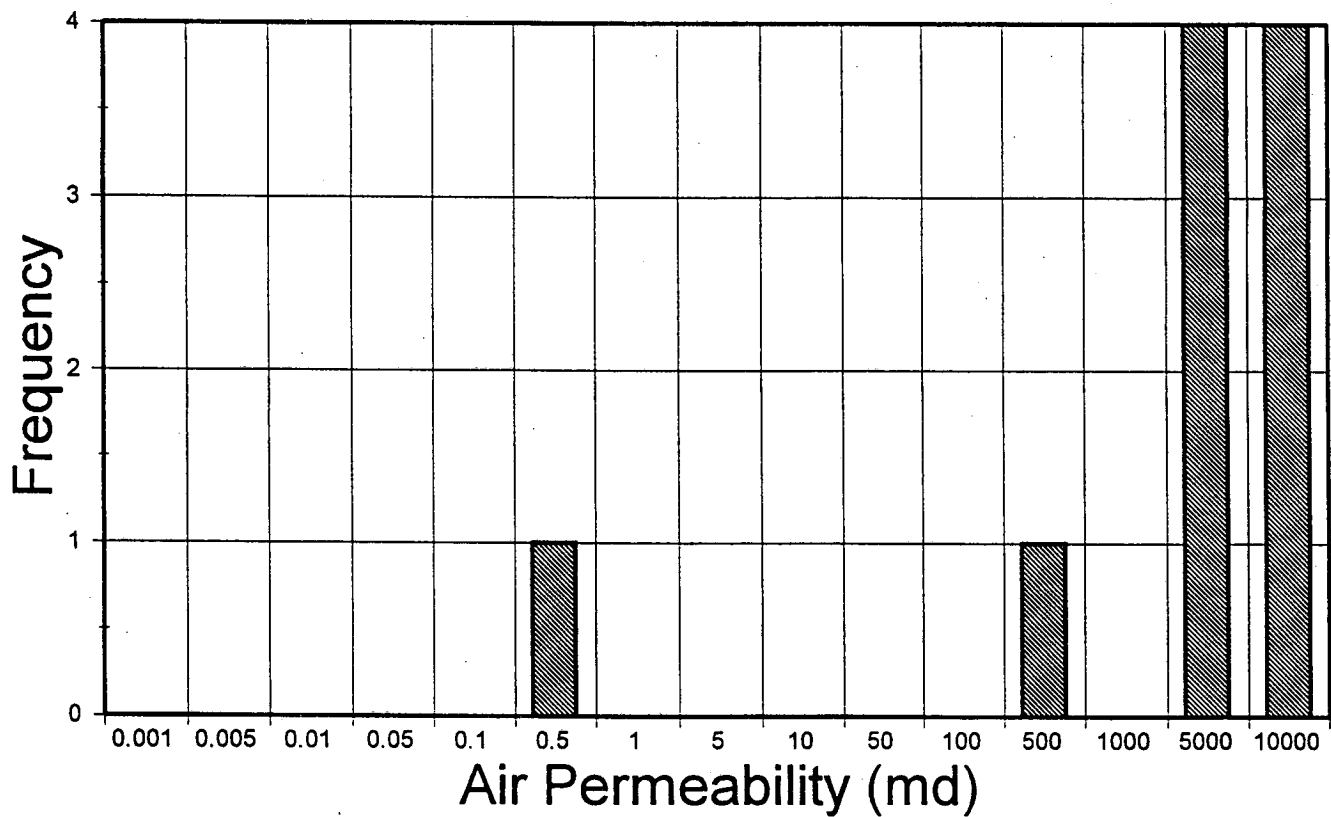
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***Air Permeability
Frequency Distribution***



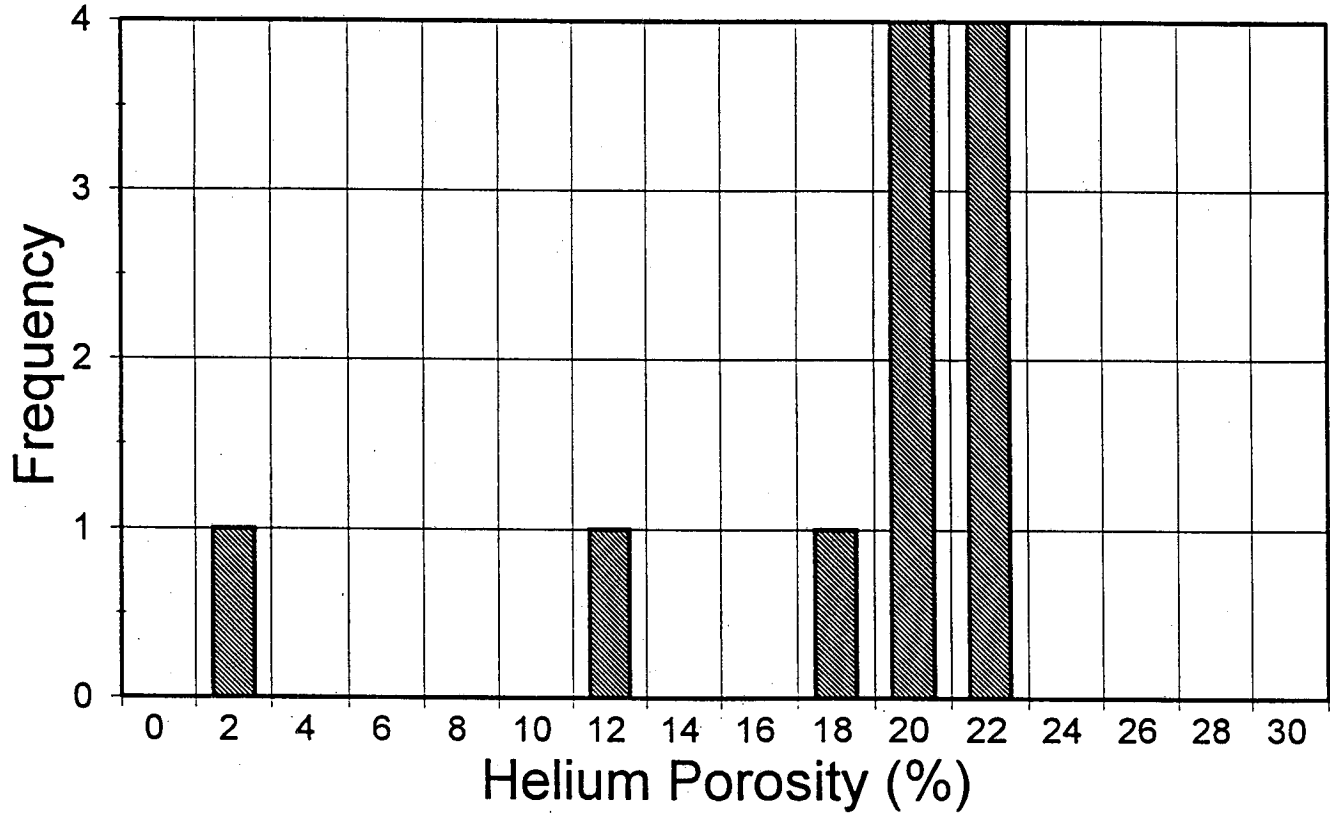
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Helium Porosity Frequency Distribution



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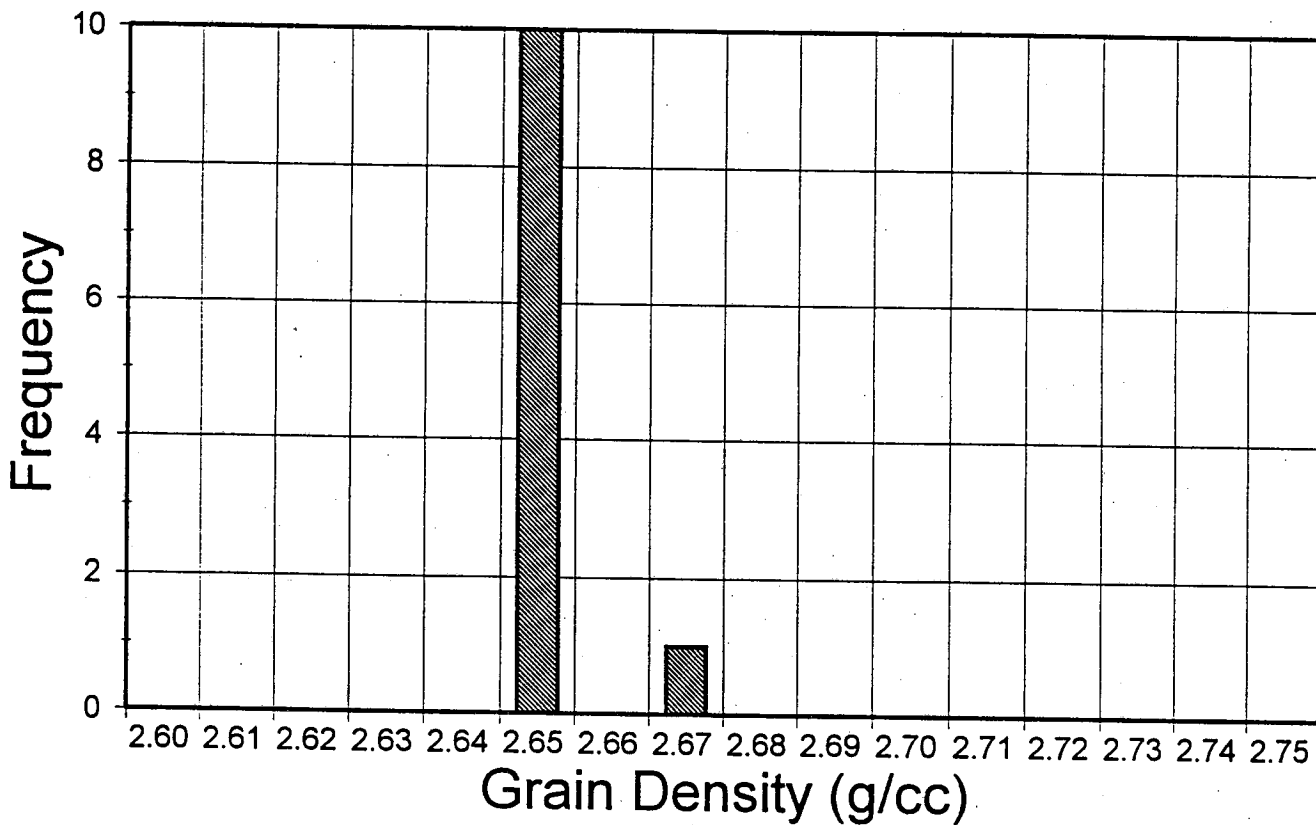
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Kuder 4-32
Sec. 32 T15S R41W
Wallace County, Kansas

Job:
Date:

9802
05-Feb-98

Grain Density Frequency Distribution



REGISTERED
STATE COMMISSION
MAY 19 1998
CORRELATION DIVISION
Wichita, Kansas

15-199-20269-00-06

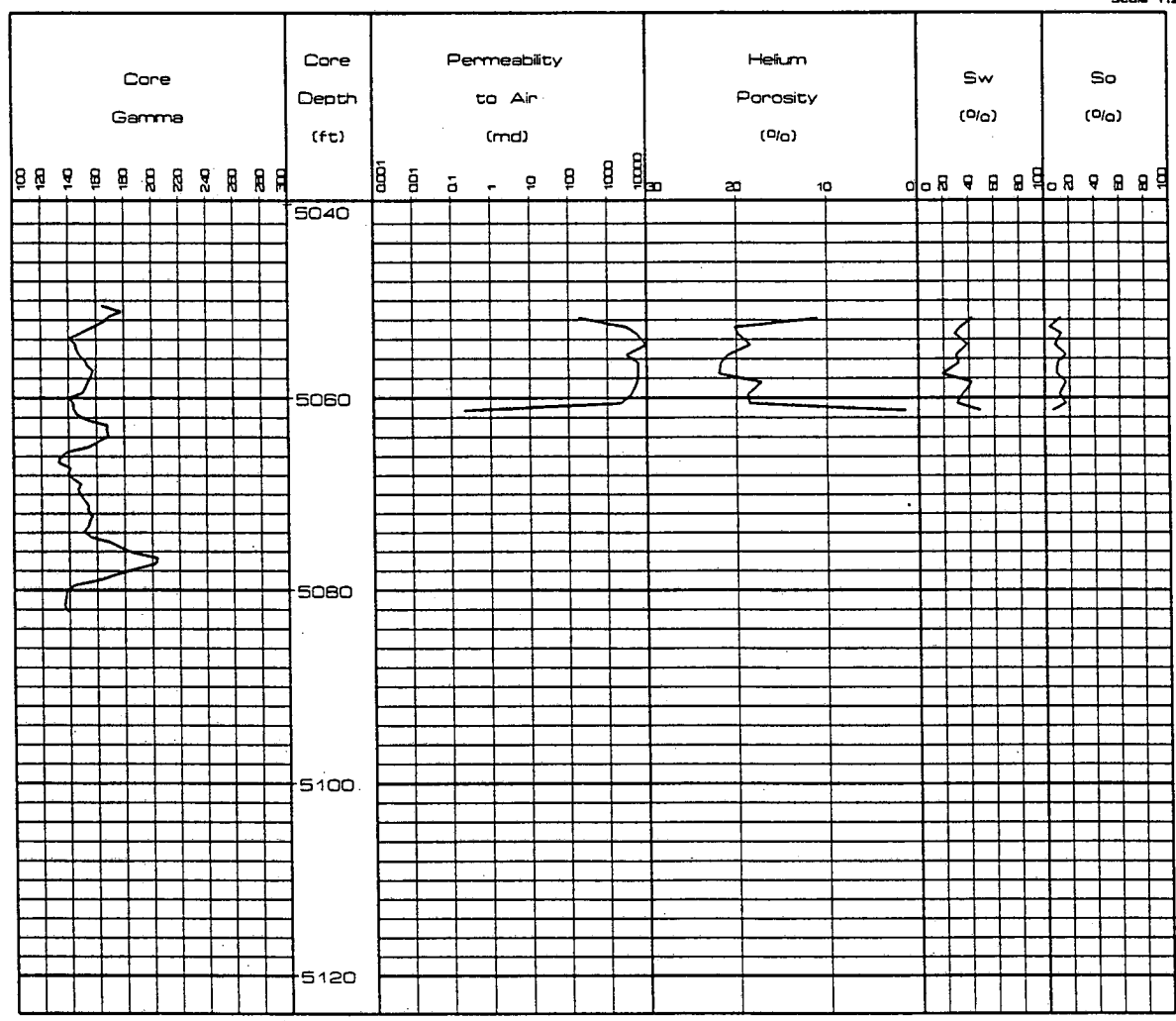
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Kuder 4-32
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Wallace County, Kansas

Job: 9802
Date: 05-Feb-98

PETRO-LOG

Scale 1:240



MAY 11 1998

WICOMTA DIVISION
Wichita, Kansas

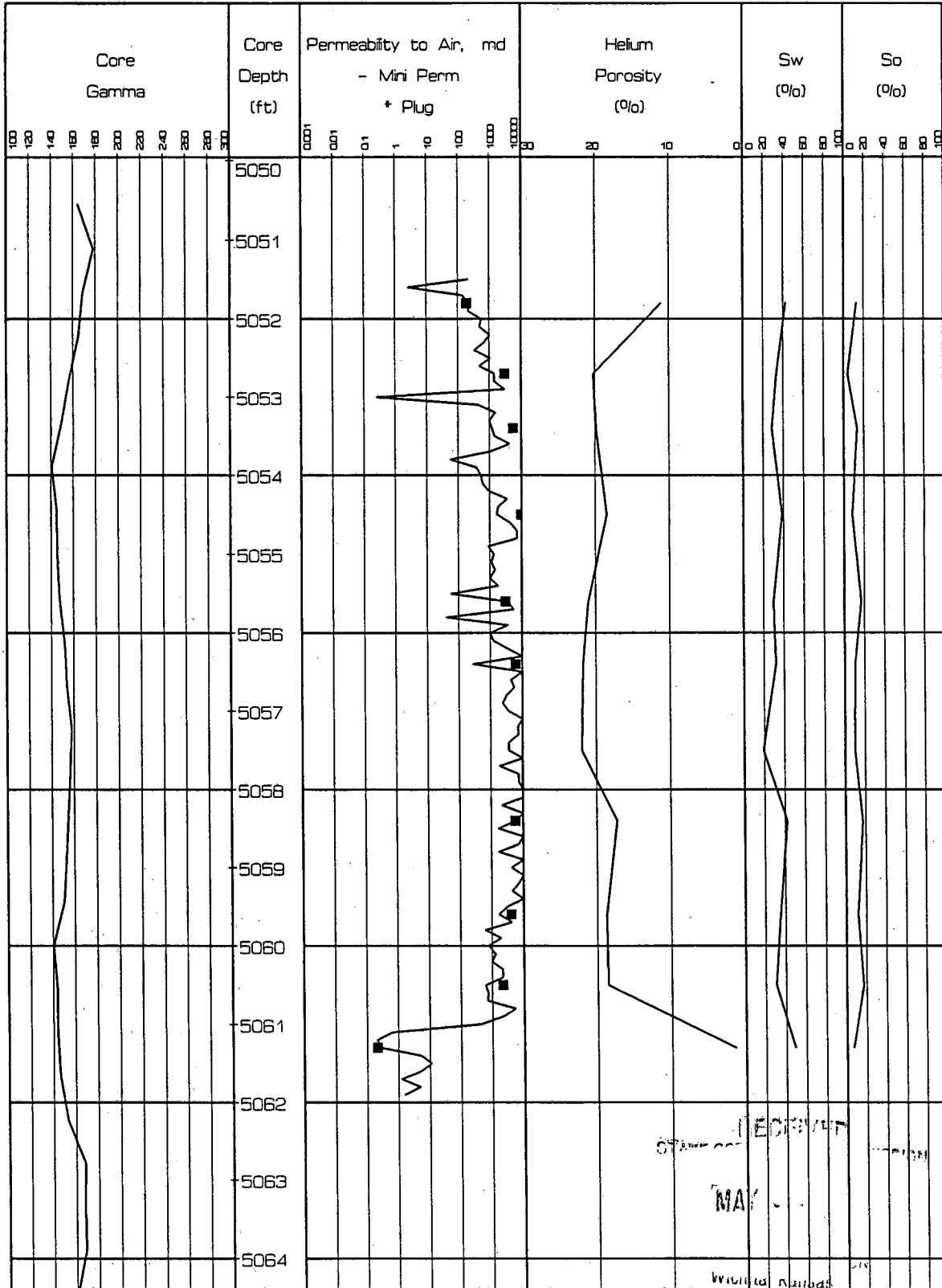
Precision Core Analysis, Inc.

15-199-20269-00-00

ORIGINAL

Permeability Comparison

Scale 1:24



RECEIVED
STATE OF
MAY
WRITING DESK

TRILOBITE TESTING L.L.C.

ORIGINAL

OPERATOR : DNR Oil & Gas Inc.
 WELL NAME: Kuder #4-32
 LOCATION : 32-15S-41W Wallace KS.
 INTERVAL : 5017.00 To 5131.00 ft

DATE 1-17-97
 KB 3797.00 ft
 GR 3787.00 ft
 TD 5131.00 ft
 TICKET NO: 10511 DST #1
 FORMATION: Morrow
 TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30	Rec.	13339	13339	3024		PF Fr. 1148 to 1218 hr
SI 45	Range(Psi)	4025.0	4025.0	4995.0	0.0	IS Fr. 1218 to 1303 hr
SF 45	Clock(hrs)	12 HR	12 HR	ALP		SF Fr. 1303 to 1348 hr
FS 60	Depth(ft)	5126.0	5126.0	5020.0	0.0	FS Fr. 1348 to 1448 hr

	Field	1	2	3	4	
A. Init Hydro	2443.0	2473.0	2465.0	0.0	0.0	T STARTED 0935 hr
B. First Flow	332.0	374.0	257.0	0.0	0.0	T ON BOTM 1145 hr
B1. Final Flow	405.0	426.0	402.0	0.0	0.0	T OPEN 1148 hr
C. In Shut-in	415.0	432.0	404.0	0.0	0.0	T PULLED 1448 hr
D. Init Flow	415.0	432.0	401.0	0.0	0.0	T OUT 1900 hr
E. Final Flow	415.0	430.0	405.0	0.0	0.0	
F. Fl Shut-in	415.0	430.0	405.0	0.0	0.0	
G. Final Hydro	2403.0	2388.0	2382.0	0.0	0.0	
Inside/Outside	O	O	I			

TOOL DATA-----

Tool Wt.	15000.00 lbs
Wt Set On Packer	40000.00 lbs
Wt Pulled Loose	140000.00 lbs
Initial Str Wt	100000.00 lbs
Unseated Str Wt	104000.00 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	457.00 ft
D.P. Length	4545.00 ft

RECOVERY

Tot Fluid 1057.00 ft of 457.00 ft in DC and 600.00 ft in DP
 90.00 ft of Gassy oil cut mud 15%gas 10%oil 75%mud
 337.00 ft of Heavy gassy oil cut mud 60%gas 5%oil 35%mud
 630.00 ft of Gassy mud cut oil 40%gas 50%oil 10% mud
 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 36.00

MUD DATA-----

Mud Type	Chemical
Weight	9.20 lb/cf
Vis.	52.00 S/L
W.L.	8.80 in3
F.C.	0.00 in
Mud Drop N	

BLOW DESCRIPTION

Initial Flow:
 Strong blow off bttm in 2 mins.
 Initial Shut-in:
 Bled off blow (GTS while bleeding off) surface to 10" return
 Final Flow:
 Surface blow built to bttm in 17 mins. (gas to small to measure)
 Final Shut-in:
 Bled off blow - surface to bttm in 35 mins.

Amt. of fill	0.00 ft
Btm. H. Temp.	127.00 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./ Charlie
Contr.	Murfin
Rig #	14
Unit #	
Pump T.	

SAMPLES:
 SENT TO:

Test Successful: Y

ORIGINAL

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Kuder #4-32

LOCATION : 32-15S-41W Wallace KS.

TICKET No. 10511 D.S.T. No. 1 DATE 1-17-97

TOTAL TOOL TO BOTTOM OF TOP PACKERS 30

INTERVAL TOOL 21

BOTTOM PACKERS AND ANCHOR

TOTAL TOOL 51

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands1 Single Total 93

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY 144

D.C. ABOVE TOOLS.Stands5 Single Total 457

D.P. ABOVE TOOLS.Stands48 Single 1 Total 4545

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5146

TOTAL DEPTH 5131

TOTAL DRILL PIPE ABOVE K.B. 15

REMARKS:

Sampler Data:

Gas; 2500 ml

Oil; 1000 ml

Water;

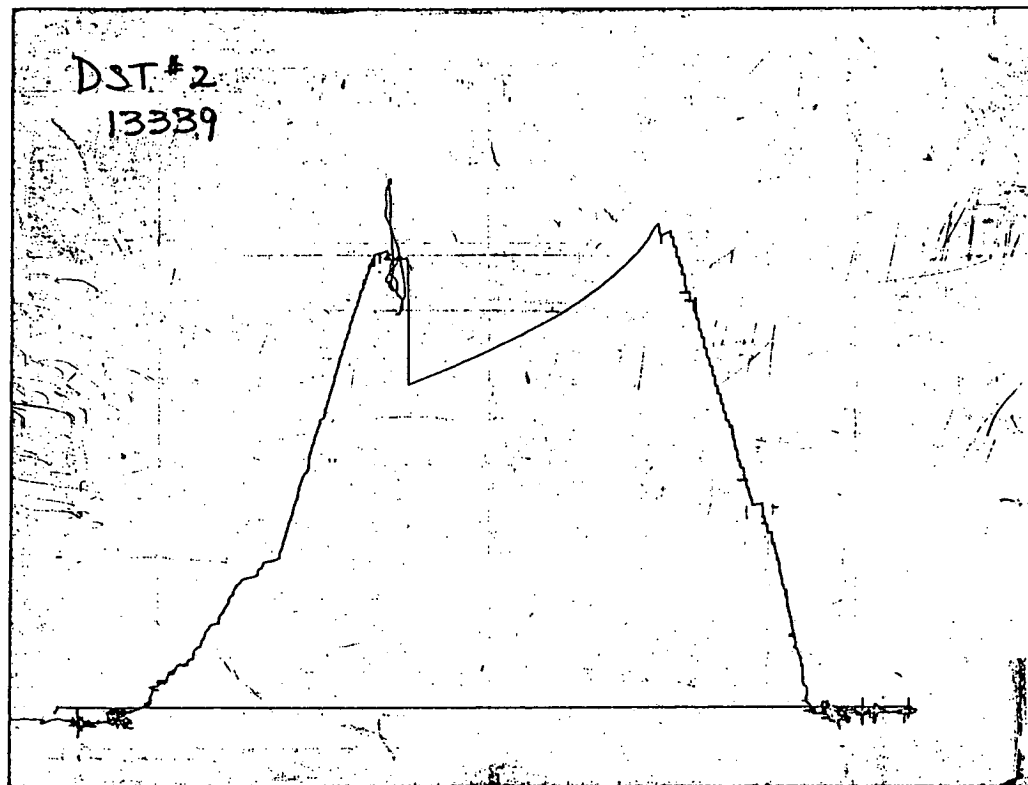
Mud; 500 ml

Total Volume; 4000 ml

Pressure; 200# psi

P.O. SUB 1' Above 30' DC	4955
C.O. SUB 1'	4985
S.I. TOOL 5'	4991
Sampler 3'	4994
HMV 5'	4999
JARS 5'	5004
SAFETY JOINT 2'	5006
PACKER 4'	5010
PACKER 7'	5017
DEPTH	
STUBB 1'	5018
ANCHOR	
ALP Rec. @	5020
13' Perf	5031
1' c/o sub	5032
93' DC	5125
1' c/o sub	5126
T.C.	
DEPTH	
AK-1 Rec. @	5126
BULLNOSE 5'	
T.D.	5131

CHART PAGE



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

MAY 04 1998
WICHITA DIVISION
Wichita, Kansas

15-199-20269-00-00

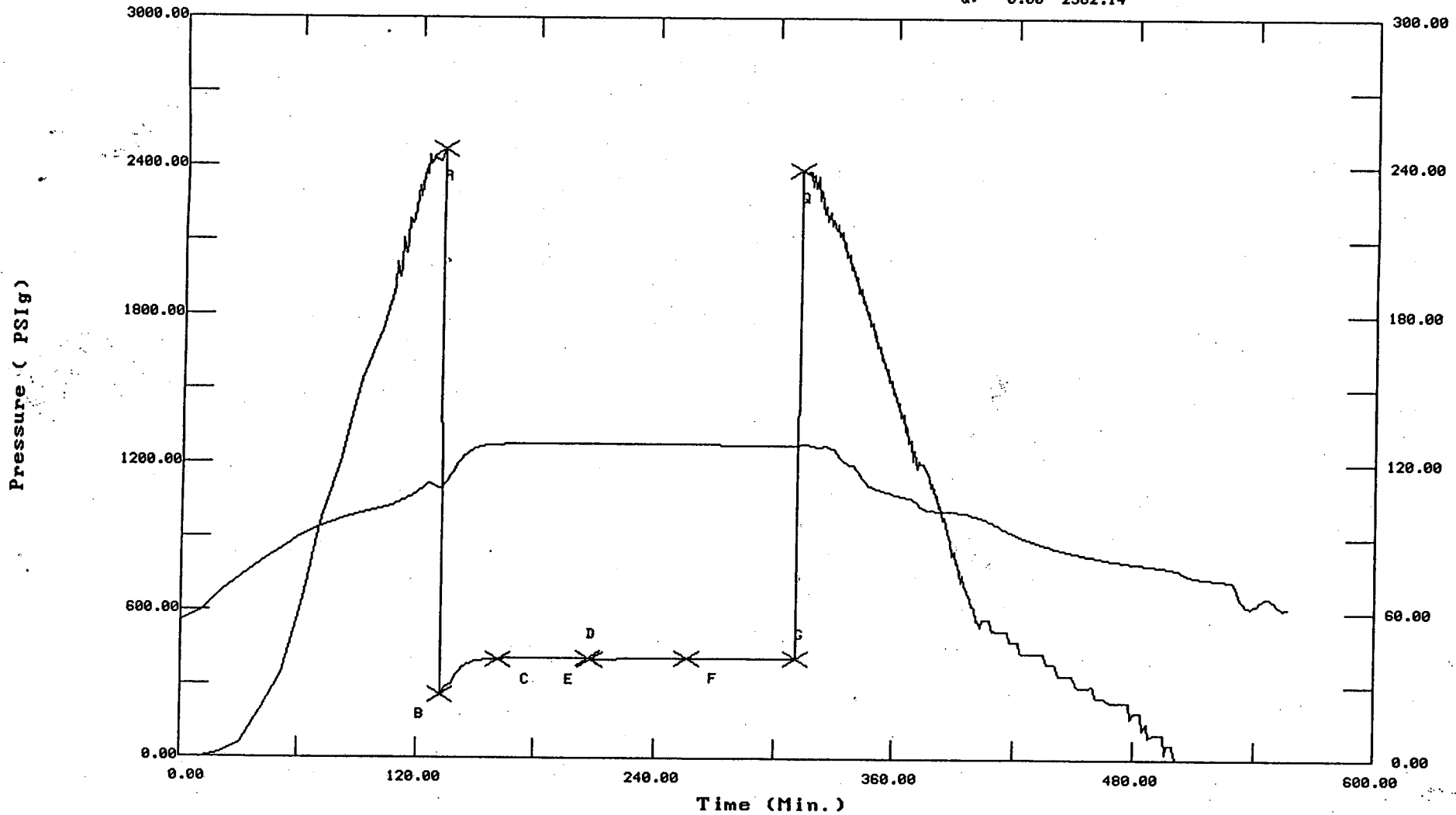
TEST HISTORY

10511 DST #1 Kuder #4-32 DNR Oil & Gas

Flag Points

t (Min.) P (PSIg)

A:	0.00	2465.90
B:	0.00	257.63
C:	30.00	402.65
D:	45.00	404.91
E:	0.00	401.93
F:	48.00	405.20
G:	55.00	405.62
Q:	0.00	2382.14



10511-101-101-101

Temperature (DEG F)

15-199-20269-00-00

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10511 DST #1 Kuder #4-32 DNR Oil & Gas

DATE: 01/17/98 TIME: 09:35:37

	Time	Pressure PSI _g	delta P PSI _g	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
***** Initial Hydro.	131.00	2465.9	0.0	109.75		
***** Start Flow 1	0.00	257.6	0.0	110.11		
	1.00	268.4	10.7	110.87		
	2.00	287.5	29.9	111.95		
	3.00	289.8	32.2	113.14		
	4.00	292.8	35.2	114.52		
	5.00	296.8	39.2	115.92		
	6.00	308.5	50.9	117.21		
	7.00	321.3	63.7	118.37		
	8.00	332.7	75.1	119.46		
	9.00	343.7	86.1	120.47		
	10.00	353.6	96.0	121.40		
	11.00	362.0	104.4	122.28		
	12.00	369.1	111.5	123.07		
	13.00	374.8	117.2	123.78		
	14.00	379.6	121.9	124.38		
	15.00	383.4	125.8	124.92		
	16.00	387.1	129.4	125.39		
	17.00	389.5	131.9	125.78		
	18.00	392.0	134.3	126.11		
	19.00	394.1	136.4	126.38		
	20.00	395.7	138.1	126.61		
	21.00	397.1	139.5	126.80		
	22.00	398.3	140.6	126.93		
	23.00	399.3	141.7	127.05		
	24.00	400.3	142.7	127.13		
	25.00	401.0	143.4	127.19		
	26.00	401.6	144.0	127.25		
	27.00	401.8	144.2	127.29		
	28.00	402.1	144.5	127.33		
	29.00	402.5	144.9	127.36		
***** End Flow 1	30.00	402.7	145.0	127.39		
***** Start Shutin 1	0.00	402.7	0.0	127.39	0.0000	0.162
	1.00	402.7	0.1	127.42	31.0000	0.162
	2.00	403.1	0.5	127.45	16.0000	0.163
	3.00	403.4	0.7	127.47	11.0000	0.163
	4.00	403.5	0.9	127.49	8.5000	0.163
	5.00	403.7	1.0	127.52	7.0000	0.163
	6.00	403.8	1.1	127.55	6.0000	0.163
	7.00	403.9	1.2	127.58	5.2857	0.163
	8.00	403.9	1.3	127.59	4.7500	0.163
	9.00	404.0	1.4	127.61	4.3333	0.163
	10.00	404.1	1.4	127.64	4.0000	0.163
	11.00	404.1	1.5	127.66	3.7273	0.163
	12.00	404.2	1.5	127.69	3.5000	0.163
	13.00	404.2	1.6	127.71	3.3077	0.163
	14.00	404.3	1.6	127.74	3.1429	0.163
	15.00	404.3	1.6	127.75	3.0000	0.163
	16.00	404.4	1.7	127.78	2.8750	0.164
	17.00	404.4	1.7	127.80	2.7647	0.164
	18.00	404.4	1.8	127.82	2.6667	0.164

MAY 11 1998

WICHITA DIVISION
Wichita, Kansas

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10511 DST #1 Kuder #4-32 DNR Oil & Gas
 DATE: 01/17/98 TIME: 09:35:37

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
19.00	404.5	1.8	127.83	2.5789	0.164
20.00	404.5	1.8	127.85	2.5000	0.164
21.00	404.5	1.9	127.87	2.4286	0.164
22.00	404.6	1.9	127.89	2.3636	0.164
23.00	404.6	1.9	127.90	2.3043	0.164
24.00	404.6	1.9	127.92	2.2500	0.164
25.00	404.6	2.0	127.93	2.2000	0.164
26.00	404.6	2.0	127.94	2.1538	0.164
27.00	404.6	2.0	127.95	2.1111	0.164
28.00	404.7	2.0	127.95	2.0714	0.164
29.00	404.7	2.0	127.97	2.0345	0.164
30.00	404.7	2.1	127.98	2.0000	0.164
31.00	404.7	2.1	127.98	1.9677	0.164
32.00	404.7	2.1	127.98	1.9375	0.164
33.00	404.7	2.1	127.98	1.9091	0.164
34.00	404.7	2.1	127.98	1.8824	0.164
35.00	404.8	2.1	127.98	1.8571	0.164
36.00	404.8	2.1	127.98	1.8333	0.164
37.00	404.8	2.2	127.98	1.8108	0.164
38.00	404.8	2.2	127.98	1.7895	0.164
39.00	404.8	2.2	127.98	1.7692	0.164
40.00	404.8	2.2	127.98	1.7500	0.164
41.00	404.8	2.2	127.97	1.7317	0.164
42.00	404.9	2.2	127.96	1.7143	0.164
43.00	404.9	2.3	127.95	1.6977	0.164
44.00	404.9	2.3	127.95	1.6818	0.164
45.00	404.9	2.3	127.94	1.6667	0.164
***** End Shut-in 1					
***** Start Flow 2					
0.00	401.9	0.0	127.93		
1.00	401.9	0.0	127.91		
2.00	401.8	-0.1	127.90		
3.00	401.1	-0.9	127.90		
4.00	401.1	-0.8	127.87		
5.00	401.5	-0.4	127.85		
6.00	402.0	0.0	127.81		
7.00	402.3	0.4	127.78		
8.00	402.5	0.6	127.75		
9.00	402.9	0.9	127.73		
10.00	403.0	1.1	127.70		
11.00	402.8	0.9	127.67		
12.00	402.8	0.8	127.66		
13.00	403.0	1.0	127.64		
14.00	403.4	1.5	127.62		
15.00	403.5	1.6	127.60		
16.00	403.6	1.6	127.58		
17.00	403.6	1.6	127.58		
18.00	403.7	1.8	127.56		
19.00	403.8	1.9	127.55		
20.00	404.1	2.2	127.54		
21.00	404.2	2.3	127.53		
22.00	404.1	2.2	127.53		
23.00	404.2	2.3	127.53		

15-199-20269-00-00

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10511 DST #1 Kuder #4-32 DNR Oil & Gas

DATE: 01/17/98 TIME: 09:35:37

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
24.00	404.6	2.7	127.52		
25.00	404.7	2.8	127.52		
26.00	404.6	2.7	127.51		
27.00	404.4	2.5	127.52		
28.00	404.4	2.5	127.51		
29.00	404.5	2.5	127.50		
30.00	404.5	2.5	127.51		
31.00	404.6	2.6	127.50		
32.00	404.6	2.7	127.51		
33.00	404.7	2.7	127.50		
34.00	404.8	2.9	127.50		
35.00	405.0	3.0	127.50		
36.00	404.9	3.0	127.50		
37.00	404.9	2.9	127.50		
38.00	404.9	3.0	127.50		
39.00	404.9	3.0	127.50		
40.00	405.0	3.1	127.50		
41.00	405.0	3.1	127.49		
42.00	405.0	3.1	127.49		
43.00	405.1	3.1	127.49		
44.00	405.1	3.1	127.48		
45.00	405.1	3.2	127.49		
46.00	405.2	3.2	127.48		
47.00	405.2	3.3	127.48		
48.00	405.2	3.3	127.47		
***** End Flow 2					
***** Start Shutin 2	0.00	405.2	0.0	127.47	0.0000 0.164
	1.00	405.2	0.0	127.47	79.0000 0.164
	2.00	405.2	0.0	127.48	40.0000 0.164
	3.00	405.2	0.0	127.47	27.0000 0.164
	4.00	405.3	0.1	127.46	20.5000 0.164
	5.00	405.3	0.1	127.46	16.6000 0.164
	6.00	405.3	0.1	127.46	14.0000 0.164
	7.00	405.3	0.1	127.47	12.1429 0.164
	8.00	405.3	0.1	127.46	10.7500 0.164
	9.00	405.3	0.1	127.45	9.6667 0.164
	10.00	405.3	0.1	127.45	8.8000 0.164
	11.00	405.3	0.1	127.44	8.0909 0.164
	12.00	405.3	0.1	127.43	7.5000 0.164
	13.00	405.3	0.1	127.43	7.0000 0.164
	14.00	405.4	0.2	127.43	6.5714 0.164
	15.00	405.4	0.2	127.43	6.2000 0.164
	16.00	405.4	0.2	127.43	5.8750 0.164
	17.00	405.4	0.2	127.42	5.5882 0.164
	18.00	405.4	0.2	127.43	5.3333 0.164
	19.00	405.4	0.2	127.42	5.1053 0.164
	20.00	405.4	0.2	127.42	4.9000 0.164
	21.00	405.4	0.2	127.42	4.7143 0.164
	22.00	405.4	0.2	127.42	4.5455 0.164
	23.00	405.4	0.2	127.41	4.3913 0.164
	24.00	405.5	0.3	127.41	4.2500 0.164
	25.00	405.5	0.3	127.41	4.1200 0.164

MAY 04 1998

WICHITA DIVISION
Wichita, Kansas

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10511 DST #1 Kuder #4-32 DNR Oil & Gas

DATE: 01/17/98

TIME: 09:35:37

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
26.00	405.5	0.3	127.41	4.0000	0.164
27.00	405.5	0.3	127.41	3.8889	0.164
28.00	405.5	0.3	127.41	3.7857	0.164
29.00	405.5	0.3	127.41	3.6897	0.164
30.00	405.5	0.3	127.40	3.6000	0.164
31.00	405.5	0.3	127.41	3.5161	0.164
32.00	405.5	0.3	127.41	3.4375	0.164
33.00	405.5	0.3	127.41	3.3636	0.164
34.00	405.5	0.3	127.41	3.2941	0.164
35.00	405.5	0.3	127.40	3.2286	0.164
36.00	405.5	0.3	127.40	3.1667	0.164
37.00	405.5	0.3	127.40	3.1081	0.164
38.00	405.5	0.3	127.41	3.0526	0.164
39.00	405.5	0.3	127.41	3.0000	0.164
40.00	405.5	0.3	127.41	2.9500	0.164
41.00	405.5	0.3	127.41	2.9024	0.164
42.00	405.5	0.3	127.41	2.8571	0.164
43.00	405.6	0.4	127.41	2.8140	0.164
44.00	405.6	0.4	127.41	2.7727	0.164
45.00	405.6	0.4	127.41	2.7333	0.164
46.00	405.5	0.3	127.40	2.6957	0.164
47.00	405.6	0.4	127.41	2.6596	0.165
48.00	405.6	0.4	127.42	2.6250	0.165
49.00	405.6	0.4	127.41	2.5918	0.165
50.00	405.6	0.4	127.41	2.5600	0.164
51.00	405.6	0.4	127.41	2.5294	0.165
52.00	405.6	0.4	127.42	2.5000	0.165
53.00	405.6	0.4	127.41	2.4717	0.165
54.00	405.6	0.4	127.42	2.4444	0.165
55.00	405.6	0.4	127.42	2.4182	0.165
***** End Shut-in 2					
***** Final Hydro.	312.00	2382.1	0.0	127.41	

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 10511

Well Name & No. Kudex #4-32 Test No. 1 Date 1-17-98
 Company DNR Oil & Gas Inc. Zone Tested Morrow
 Address 655 Broadway Ste 525 Denver CO. 80203 Elevation 3797 KB 3787 GL
 Co. Rep / Geo. Lee Tucker Cont. Murfin #14 Est. Ft. of Pay Por. %
 Location: Sec. 32 Twp. 15^S Rge. 41^W Co. Wallace State KS
 No. of Copies 10 Distribution Sheet (Y, N) N Turnkey (Y, N) N Evaluation (Y, N)

Interval Tested 5017 - 5131 Initial Str Wt/Lbs. 100,000 Unseated Str Wt/Lbs. 104,000
 Anchor Length 114' Wt. Set Lbs. 40,000 Wt. Pulled Loose/Lbs. 140,000
 Top Packer Depth 5010 Tool Weight 15,000
 Bottom Packer Depth 5017 Hole Size — 7 7/8" Rubber Size — 6 3/4"
 Total Depth (LTD) 5131 Wt. Pipe Run Drill Collar Run H-90 457'
 Mud Wt. 9.2 LCM Vis. 52 WL 8.8 Drill Pipe Size 4 1/2" XH Ft. Run 4545'

Blow Description IF: Strong blow off btm in 2 mins.
IST: Bled off blow (GTS while bleeding off) surface to 10" return
FF: Surface blow built to btm in 17 mins. (gas TSTM)
FST: Bled off blow - surface to btm in 35 mins.

Recovery — Total Feet	GIP	gts	Ft. in DC	Ft. in DP	%gas	%oil	%water	%mud
Rec. <u>90'</u>	Feet Of	<u>GDCM</u>	<u>15</u>	<u>457'</u>	<u>10</u>	<u> </u>	<u>75</u>	<u> </u>
Rec. <u>337'</u>	Feet Of	<u>HGOCM</u>	<u>60</u>	<u>600'</u>	<u>5</u>	<u> </u>	<u>35</u>	<u> </u>
Rec. <u>630'</u>	Feet Of	<u>GMCO</u>	<u>40</u>	<u> </u>	<u>50</u>	<u> </u>	<u>10</u>	<u> </u>

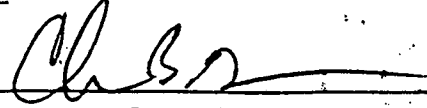
BHT 127° °F Gravity 37 °API D@ 70° °F Corrected Gravity 36 °API
 RW @ °F Chlorides ppm Recovery Chlorides 6,000 ppm System

(A) Initial Hydrostatic Mud	<u>2443</u> <u>2465</u> PSI	Recorder No.	<u>3024</u>	T-Started	<u>0935</u> CDT
(B) First Initial Flow Pressure	<u>332</u> <u>257</u> PSI	(depth)	<u>5020</u>	T-Open	<u>1148</u>
(C) First Final Flow Pressure	<u>405</u> <u>402</u> PSI	Recorder No.	<u>13339</u>	T-Pulled	<u>1448</u>
(D) Initial Shut-in Pressure	<u>415</u> <u>404</u> PSI	(depth)	<u>5125</u>	T-Out	<u>1900</u>
(E) Second Initial Flow Pressure	<u>415</u> <u>401</u> PSI	Recorder No.	<u> </u>		
(F) Second Final Flow Pressure	<u>415</u> <u>405</u> PSI	(depth)	<u> </u>		
(G) Final Shut-in Pressure	<u>415</u> <u>405</u> PSI	Initial Opening	<u>30</u>	Test	<u>MAY 04 1998</u>
(H) Final Hydrostatic Mud	<u>2403</u> <u>2382</u> PSI	Initial Shut-in	<u>45</u>	Jars	<u>X</u>

AK-1 Mech Alp Elec.

Final Flow 45 Safety Joint X
 Final Shut-in 60 Straddle
 on loc. 0615 Circ. Sub X N/C
 off loc. 2000 Sampler X
 Shale Packer X
 Elect. Rec. X
 Other

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 

TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 10511 Date 1-17-98
Company Name DNR Oil & Gas Cont. Murfin #14
Lease Kuder #4-32 Test No. 1 Morrow
County Wallace KS. Sec. 32 Twp. 15^S Rng. 41^W

SAMPLER RECOVERY

Gas 2500 ML
Oil 1000 ML
Mud 500 ML
Water _____ ML
Other _____ ML
Pressure 200# PSI
Total 4,000 ML

SAMPLER ANALYSIS

Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.
Gravity 36 corrected @ 60 F

PIT MUD ANALYSIS

Chlorides 6,000 ppm.
Resistivity _____ ohms @ _____ F
Viscosity 52
Mud Weight 9.2
Filtrate 8.8
Other _____

PIPE RECOVERY

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

*** TOOL DIAGRAM *** CONV STRADDLE

15-199-20269-00-00

WELL NAME: Kuder #4-32

LOCATION : 32-15S-41W Wallace KS.

TICKET No. 10512 D.S.T. No. 2 DATE 1-18-98

TOTAL TOOL TO BOTTOM OF TOP PACKERS 30

INTERVAL TOOL 24

BOTTOM PACKERS AND ANCHOR 21

TOTAL TOOL 75

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands1 Single Total 93

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY 168

D.C. ABOVE TOOLS.Stands5 Single Total 457

D.P. ABOVE TOOLS.Stands48 Single Total 4514

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5139

TOTAL DEPTH 5131

TOTAL DRILL PIPE ABOVE K.B. 8

REMARKS:

Sampler Data;

Gas; 500 ml

Dil; 100 ml

Water; 3400 ml

Mud;

Total Volume; 4000 ml

Pressure; 850# psi

RW .30 @ 55 deg = 30,000 Chlorides

P.O. SUB 1' Above 30' DC	4931
C.O. SUB 1'	4961
S.I. TOOL 5'	4967
Sampler 3'	4970
HMV 5'	4975
JARS 5'	4980
SAFETY JOINT 2'	4982
PACKER 4'	4986
PACKER 7'	4993
DEPTH STUBB 1'	4994
ANCHOR	
Alp Rec. @	4995
18' Perf	5012
AK-1 Rec. @	5010
1' Blank Off Sub	5013
T.C. DEPTH	
PACKER 4'	5017
14' Perf	5031
1' c/o sub	5032
93' DC	5125
1' c/o sub	5126
BULLNOSE AK-1 Rec. @	5126
T.D. 5'	5131

MAY 6 1998

CONSERVATION DIVISION
Wichita, Kansas

TRILOBITE TESTING L.L.C.

OPERATOR : DNR Oil & Gas Inc.

DATE 1-18-98

WELL NAME: Kuder #4-32

KB 3797.00 ft

TICKET NO: 10512 DST #2

LOCATION : 32-15S-41W Wallace KS.

GR 3787.00 ft

FORMATION: Upper Morrow

INTERVAL : 4993.00 To 5017.00 ft

TD 5131.00 ft

TEST TYPE: CONV STRADDLE

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30	Rec.	13276	13276	3024		13339 PF Fr. 0337 to 0407 hr
SI 45	Range(Psi)	4000.0	4000.0	4995.0	0.0	4025.0 IS Fr. 0407 to 0452 hr
SF 45	Clock(hrs)	12 HR	12 HR	ALP		12 HR SF Fr. 0452 to 0537 hr
FS 60	Depth(ft)	5010.0	5010.0	4995.0	0.0	5126.0 FS Fr. 0537 to 0637 hr

	Field	1	2	3	4	
A. Init Hydro	2443.0	2430.0	2468.0	0.0	2573.0	T STARTED 0100 hr
B. First Flow	100.0	105.0	73.0	0.0	0.0	T ON BOTM 0335 hr
B1. Final Flow	219.0	240.0	254.0	0.0	0.0	T OPEN 0337 hr
C. In Shut-in	950.0	960.0	970.0	0.0	0.0	T PULLED 0637 hr
D. Init Flow	278.0	294.0	293.0	0.0	0.0	T OUT 1030 hr
E. Final Flow	435.0	461.0	471.0	0.0	0.0	
F. Fl Shut-in	940.0	951.0	964.0	0.0	0.0	
G. Final Hydro	2346.0	2380.0	2401.0	0.0	2473.0	
Inside/Outside	0	0	I		S	

RECOVERY

Tot Fluid 1500.00 ft of 457.00 ft in DC and 1043.00 ft in DP
 930.00 ft of Clean gassy oil 25%gas 75%oil
 180.00 ft of Gassy water and oil cut mud
 0.00 ft of 15% gas 20% oil 15% water 50% mud
 90.00 ft of Gassy mud cut water 30% gas 40% water 30% mud
 300.00 ft of Water
 0.00 ft of
 0.00 ft of
 0.00 ft of

SALINITY 0.00 P.P.M. A.P.I. Gravity 39.00

BLOW DESCRIPTION

Initial Flow:
 Fair to strong blow off bttm in 5 mins.
 Initial Shut-in:
 Bled off blow - 1/2" return blow throughout
 Final Flow:
 Strong blow off bttm in 2 mins
 GTS @ 25 mins
 Final Shut-in:
 Bled off blow - surface return built to bttm in 20 mins.

SAMPLES:
 SENT TO:

Test Successful: Y

TOOL DATA-----

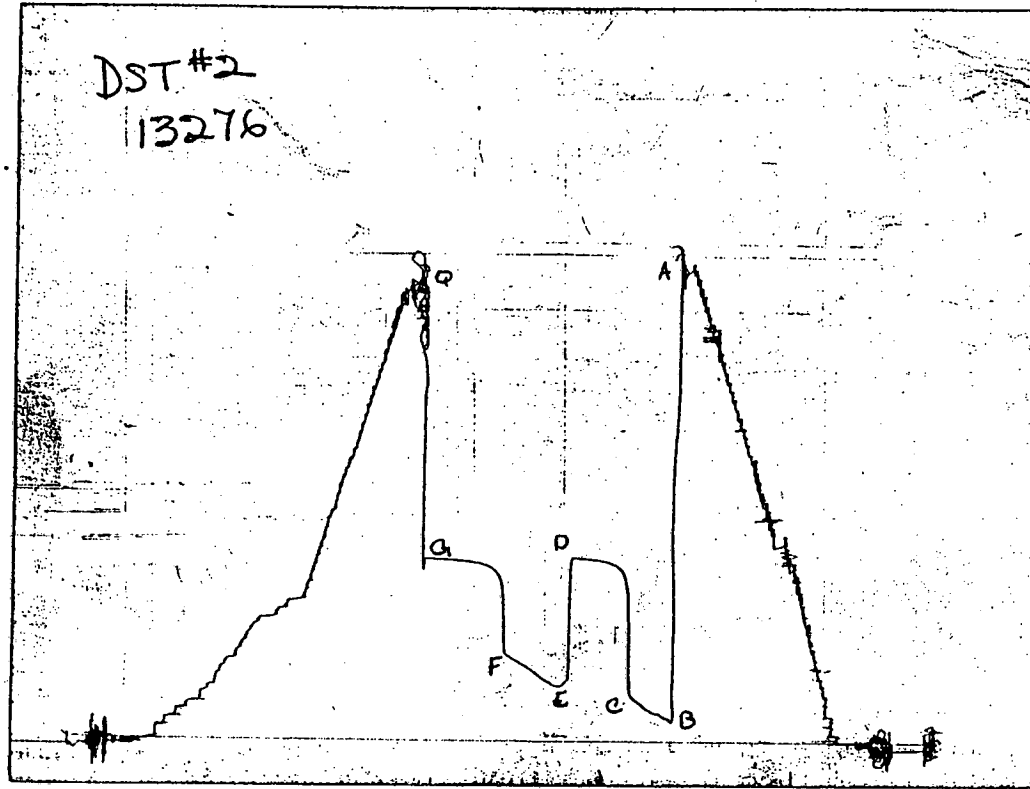
Tool Wt. 15000.00 lbs
 Wt Set On Packer 40000.00 lbs
 Wt Pulled Loose 120000.00 lbs
 Initial Str Wt 100000.00 lbs
 Unseated Str Wt 104000.00 lbs
 Bot Choke 0.75 in
 Hole Size 8.88 in
 D Col. ID 2.25 in
 D. Pipe ID 3.80 in
 D.C. Length 457.00 ft
 D.P. Length 4514.00 ft

MUD DATA-----

Mud Type Chemical
 Weight 9.20 lb/cf
 Vis. 52.00 S/L
 W.L. 8.80 in3
 F.C. 0.00 in
 Mud Drop N
 Amt. of fill 0.00 ft
 Btm. H. Temp. 139.00 F
 Hole Condition Good
 % Porosity 0.00
 Packer Size 6.75 in
 No. of Packers 3
 Cushion Amt. 0.00
 Cushion Type
 Reversed Out N
 Tool Chased N
 Tester Rod Steinbrink
 Co. Rep. Lee T/Charlie D
 Contr. Murfin
 Rig # 14
 Unit #
 Pump T.

15-199-20269-00-00

CHART PAGE



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

RECEIVED
STATE ADDRESS

(MA)

Internal Address

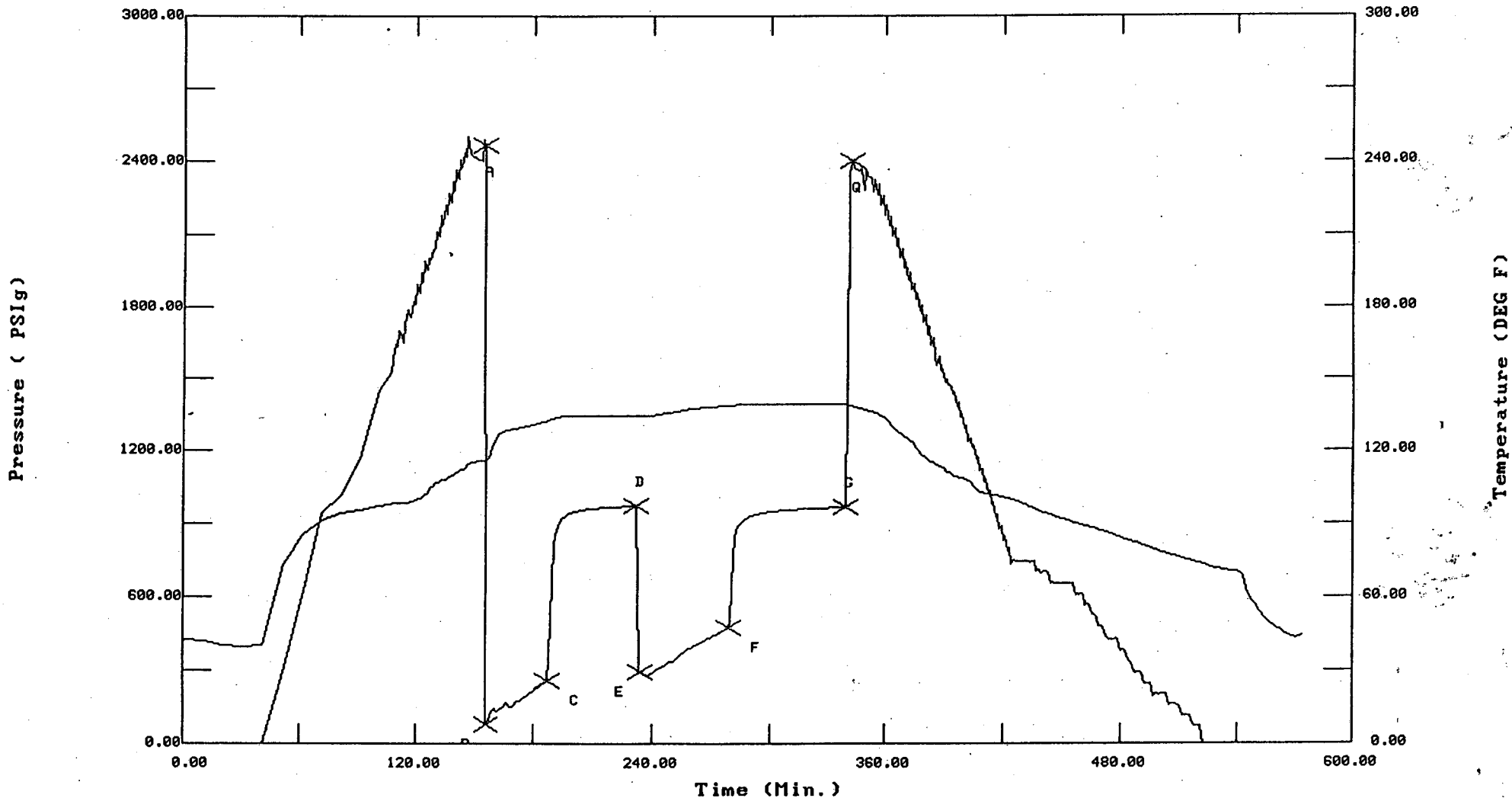
TEST HISTORY

10512 DST #2 Kuder #4-32 DNR Oil & Gas Inc.

Flag Points

t (Min.) P (PSig)

A:	0.00	2468.10
B:	0.00	73.74
C:	31.00	254.39
D:	45.00	970.24
E:	0.00	293.66
F:	45.00	471.57
G:	60.00	964.18
Q:	0.00	2401.89



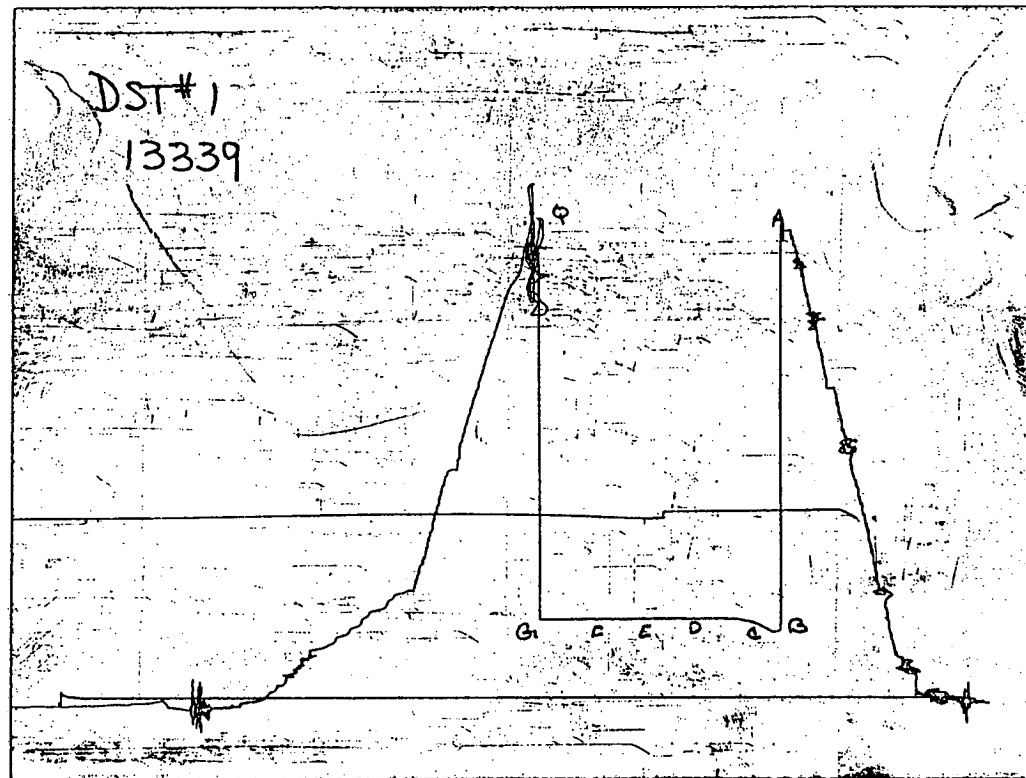
15-199-20269-00-00

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10512 DST #2 Kuder #4-32 DNR Oil & Gas Inc.
 DATE: 01/18/98 TIME: 01:00:25

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
***** Initial Hydro.	155.00	2468.1	0.0	115.60		
***** Start Flow 1	0.00	73.7	0.0	115.73		
	1.00	94.4	20.6	116.94		
	2.00	114.1	40.4	119.28		
	3.00	132.2	58.5	121.68		
	4.00	143.7	70.0	123.67		
	5.00	129.0	55.3	125.17		
	6.00	132.2	58.4	126.23		
	7.00	138.9	65.1	126.97		
	8.00	144.2	70.5	127.47		
	9.00	150.8	77.0	127.86		
	10.00	166.2	92.5	128.15		
	11.00	161.5	87.7	128.39		
	12.00	144.8	71.1	128.60		
	13.00	146.9	73.1	128.73		
	14.00	156.4	82.6	128.84		
	15.00	164.6	90.9	128.97		
	16.00	169.1	95.3	129.10		
	17.00	173.8	100.1	129.27		
	18.00	179.4	105.7	129.45		
	19.00	184.7	110.9	129.63		
	20.00	189.0	115.3	129.84		
	21.00	195.0	121.2	130.05		
	22.00	201.6	127.8	130.26		
	23.00	208.0	134.2	130.49		
	24.00	214.0	140.2	130.72		
	25.00	219.8	146.1	130.96		
	26.00	226.3	152.5	131.19		
	27.00	231.7	158.0	131.42		
	28.00	237.7	164.0	131.69		
	29.00	242.1	168.3	131.95		
	30.00	248.0	174.2	132.21		
***** End Flow 1	31.00	254.4	180.6	132.45		
***** Start Shutin 1	0.00	254.4	0.0	132.45	0.0000	0.065
	1.00	347.9	93.5	132.69	32.0000	0.121
	2.00	665.0	410.6	132.98	16.5000	0.442
	3.00	805.9	551.6	133.30	11.3333	0.650
	4.00	849.7	595.3	133.57	8.7500	0.722
	5.00	887.2	632.8	133.79	7.2000	0.787
	6.00	904.7	650.3	133.94	6.1667	0.819
	7.00	916.2	661.8	134.06	5.4286	0.839
	8.00	924.4	670.1	134.13	4.8750	0.855
	9.00	930.5	676.2	134.18	4.4444	0.866
	10.00	935.4	681.0	134.22	4.1000	0.875
	11.00	939.2	684.9	134.24	3.8182	0.882
	12.00	942.4	688.1	134.25	3.5833	0.888
	13.00	945.1	690.8	134.25	3.3846	0.893
	14.00	947.5	693.1	134.26	3.2143	0.898
	15.00	949.5	695.1	134.27	3.0667	0.901
	16.00	951.2	696.8	134.28	2.9375	0.905
	17.00	952.8	698.4	134.28	2.8235	0.908

CHART PAGE



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

15-199-20269-00-00

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10512 DST #2 Kuder #4-32 DNR Oil & Gas Inc.

DATE: 01/18/98

TIME: 01:00:25

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dt)/dT	P ² /10 ⁶
23.00	375.3	81.6	136.86		
24.00	380.5	86.8	136.99		
25.00	386.1	92.5	137.13		
26.00	390.4	96.7	137.25		
27.00	394.9	101.2	137.35		
28.00	399.5	105.9	137.45		
29.00	403.8	110.1	137.54		
30.00	408.5	114.9	137.62		
31.00	412.1	118.5	137.69		
32.00	416.9	123.3	137.77		
33.00	421.1	127.5	137.85		
34.00	424.5	130.9	137.91		
35.00	429.1	135.5	137.97		
36.00	432.7	139.0	138.05		
37.00	437.0	143.3	138.11		
38.00	441.7	148.0	138.17		
39.00	445.0	151.4	138.23		
40.00	449.0	155.4	138.30		
41.00	453.1	159.4	138.35		
42.00	457.3	163.6	138.40		
43.00	461.7	168.0	138.43		
44.00	466.5	172.8	138.48		
45.00	471.6	177.9	138.53		
***** End Flow 2					
***** Start Shutin 2	0.00	471.6	0.0	138.53	0.0000
	1.00	501.1	29.5	138.59	77.0000
	2.00	766.6	295.0	138.66	39.0000
	3.00	836.1	364.6	138.79	26.3333
	4.00	867.8	396.2	138.89	20.0000
	5.00	886.1	414.5	138.98	16.2000
	6.00	898.1	426.6	139.04	13.6667
	7.00	906.8	435.3	139.09	11.8571
	8.00	913.4	441.9	139.13	10.5000
	9.00	918.7	447.1	139.15	9.4444
	10.00	922.9	451.4	139.18	8.6000
	11.00	926.5	454.9	139.20	7.9091
	12.00	929.5	458.0	139.22	7.3333
	13.00	932.2	460.6	139.23	6.8462
	14.00	934.5	462.9	139.26	6.4286
	15.00	936.6	465.0	139.27	6.0667
	16.00	938.4	466.8	139.28	5.7500
	17.00	940.1	468.5	139.28	5.4706
	18.00	941.6	470.0	139.28	5.2222
	19.00	942.9	471.4	139.29	5.0000
	20.00	944.2	472.6	139.30	4.8000
	21.00	945.3	473.8	139.30	4.6190
	22.00	946.4	474.8	139.30	4.4545
	23.00	947.4	475.8	139.30	4.3043
	24.00	948.3	476.7	139.29	4.1667
	25.00	949.2	477.6	139.28	4.0400
	26.00	950.0	478.5	139.28	3.9231
	27.00	950.8	479.2	139.29	3.8148

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 DIVISION
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 DIVISION
 Wichita, Kansas

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10512 DST #2 Kuder #4-32 DNR Oil & Gas Inc.

DATE: 01/18/98

TIME: 01:00:25

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶	
18.00	954.2	699.8	134.27	2.7222	0.911	
19.00	955.5	701.1	134.26	2.6316	0.913	
20.00	956.6	702.2	134.26	2.5500	0.915	
21.00	957.7	703.3	134.26	2.4762	0.917	
22.00	958.6	704.3	134.25	2.4091	0.919	
23.00	959.5	705.1	134.23	2.3478	0.921	
24.00	960.4	706.0	134.24	2.2917	0.922	
25.00	961.1	706.7	134.23	2.2400	0.924	
26.00	961.9	707.5	134.22	2.1923	0.925	
27.00	962.5	708.1	134.21	2.1481	0.926	
28.00	963.2	708.8	134.21	2.1071	0.928	
29.00	963.8	709.4	134.19	2.0690	0.929	
30.00	964.3	709.9	134.20	2.0333	0.930	
31.00	964.9	710.5	134.19	2.0000	0.931	
32.00	965.3	710.9	134.19	1.9688	0.932	
33.00	965.8	711.4	134.18	1.9394	0.933	
34.00	966.3	711.9	134.18	1.9118	0.934	
35.00	966.7	712.3	134.15	1.8857	0.935	
36.00	967.1	712.7	134.15	1.8611	0.935	
37.00	967.5	713.1	134.16	1.8378	0.936	
38.00	967.9	713.5	134.15	1.8158	0.937	
39.00	968.3	713.9	134.15	1.7949	0.938	
40.00	968.6	714.2	134.15	1.7750	0.938	
41.00	968.9	714.6	134.13	1.7561	0.939	
42.00	969.3	714.9	134.13	1.7381	0.940	
43.00	969.6	715.2	134.13	1.7209	0.940	
44.00	969.9	715.5	134.12	1.7045	0.941	
***** End Shut-in 1	45.00	970.2	715.9	134.12	1.6889	0.941
***** Start Flow 2	0.00	293.7	0.0	134.07		
	1.00	289.1	-4.6	134.04		
	2.00	277.3	-16.4	134.06		
	3.00	271.3	-22.4	134.11		
	4.00	273.5	-20.2	134.19		
	5.00	279.0	-14.6	134.27		
	6.00	285.6	-8.1	134.39		
	7.00	291.5	-2.1	134.53		
	8.00	297.3	3.7	134.66		
	9.00	302.6	9.0	134.80		
	10.00	308.0	14.3	134.95		
	11.00	312.9	19.2	135.10		
	12.00	317.8	24.1	135.25		
	13.00	322.5	28.8	135.40		
	14.00	327.5	33.8	135.56		
	15.00	331.2	37.6	135.68		
	16.00	333.4	39.7	135.84		
	17.00	336.0	42.4	135.97		
	18.00	343.0	49.4	136.09		
	19.00	349.8	56.1	136.23		
	20.00	358.4	64.7	136.40		
	21.00	365.5	71.8	136.56		
	22.00	369.4	75.8	136.72		

TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

ORIGINAL

FLUID SAMPLER DATA

Ticket No. 10512 Date 1-18-98
 Company Name DNR Oil & Gas Cont. Murfin #14
 Lease Kudler #4-32 Test No. 2 Upper Morrow
 County Wallace KS Sec. 32 Twp. 15^S Rng. 41^W

SAMPLER RECOVERY

Gas 500 ML
 Oil 100 ML
 Mud _____ ML
 Water 3400 ML
 Other _____ ML
 Pressure 850* PSI
 Total 4000 ML

PIT MUD ANALYSIS

Chlorides 6,000 ppm.
 Resistivity _____ ohms @ _____ F
 Viscosity 52
 Mud Weight 9.2
 Filtrate 8.8
 Other _____

SAMPLER ANALYSIS

Resistivity .30 ohms @ 55° F
 Chlorides 30,000 ppm.
 Gravity _____ corrected @ 60 F

PIPE RECOVERY

TOP
 Resistivity .25 ohms @ 70° F
 Chlorides 26,000 ppm.

MIDDLE

Resistivity _____ ohms @ _____ F
 Chlorides _____ ppm.

BOTTOM

Resistivity .25 ohms @ 70° F
 Chlorides 26,000 ppm.

10512-A-001-417-1

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10512 DST #2 Kuder #4-32 DNR Oil & Gas Inc.

DATE: 01/18/98

TIME: 01:00:25

ORIGINAL

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
28.00	951.5	480.0	139.29	3.7143	0.905
29.00	952.2	480.6	139.28	3.6207	0.907
30.00	952.9	481.3	139.28	3.5333	0.908
31.00	953.5	481.9	139.27	3.4516	0.909
32.00	954.1	482.5	139.25	3.3750	0.910
33.00	954.7	483.1	139.26	3.3030	0.911
34.00	955.2	483.7	139.25	3.2353	0.912
35.00	955.7	484.2	139.25	3.1714	0.913
36.00	956.2	484.7	139.25	3.1111	0.914
37.00	956.7	485.1	139.24	3.0541	0.915
38.00	957.2	485.6	139.23	3.0000	0.916
39.00	957.6	486.0	139.22	2.9487	0.917
40.00	958.0	486.5	139.21	2.9000	0.918
41.00	958.4	486.9	139.20	2.8537	0.919
42.00	958.8	487.3	139.20	2.8095	0.919
43.00	959.2	487.6	139.19	2.7674	0.920
44.00	959.6	488.0	139.17	2.7273	0.921
45.00	959.9	488.4	139.15	2.6889	0.921
46.00	960.3	488.7	139.14	2.6522	0.922
47.00	960.6	489.0	139.13	2.6170	0.923
48.00	960.9	489.4	139.11	2.5833	0.923
49.00	961.3	489.7	139.09	2.5510	0.924
50.00	961.6	490.0	139.08	2.5200	0.925
51.00	961.9	490.3	139.06	2.4902	0.925
52.00	962.2	490.6	139.04	2.4615	0.926
53.00	962.4	490.9	139.03	2.4340	0.926
54.00	962.7	491.1	139.00	2.4074	0.927
55.00	963.0	491.4	138.98	2.3818	0.927
56.00	963.2	491.6	138.96	2.3571	0.928
57.00	963.5	491.9	138.93	2.3333	0.928
58.00	963.8	492.2	138.91	2.3103	0.929
59.00	964.0	492.4	138.89	2.2881	0.929
60.00	964.2	492.6	138.87	2.2667	0.930
***** End Shut-in 2					
***** Final Hydro.	342.00	2401.9	0.0	138.52	

15-199-20269-00-00

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

ORIGINAL
No. 10512

Well Name & No. Kuder #4-32 Test No. 2 Date 1-18-98
 Company DNR Oil & Gas, Inc. Zone Tested Upper Morrow
 Address 655 Broadway Ste. 525 Denver CO. 80203 Elevation 3197 KB 3787 GL
 Co. Rep / Geo. Charlie / Lee T. Cont. Murfin #14 Est. Ft. of Pay Por. %
 Location: Sec. 32 Twp. 15^S Rge. 41^N Co. Wallace State KS
 No. of Copies 10 Distribution Sheet (Y, N) N Turnkey (Y, N) N Evaluation (Y, N)

Interval Tested 4993 - 5017 Initial Str Wt./Lbs. 100,000 Unseated Str Wt./Lbs. 104,000
 Anchor Length 24' Wt. Set Lbs. 40,000 Wt. Pulled Loose/Lbs. 120,000
 Top Packer Depth 4986 - 4993 Tool Weight 15,000
 Bottom Packer Depth 5017 Hole Size - 7 7/8" Rubber Size - 6 3/4"
 Total Depth (LTD) 5131 Wt. Pipe Run Drill Collar Run H-90 457' (5)
 Mud Wt. 9.2 LCM Vis. 52 WL 8.8 Drill Pipe Size 4 1/2" xH Ft. Run 4514' (48)

Blow Description IF: Fair to strong blow off bttm in 5 mins.
ISI! Bled off blow - 1/2" return blow throughout
FF: Strong blow off bttm in 2 mins GTS @ 25 mins
FSTI! Bled off blow - surface return built to bttm in 20 mins

Recovery - Total Feet	GIP	gts	Ft. in DC	Ft. in DP	%gas	%oil	%water	%mud
Rec. <u>930'</u>	Feet Of	<u>CGO</u>	<u>25</u>	<u>75</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
Rec. <u>180'</u>	Feet Of	<u>GWOCM</u>	<u>15</u>	<u>20</u>	<u>15</u>	<u>50</u>	<u> </u>	<u> </u>
Rec. <u>90'</u>	Feet Of	<u>GMCW</u>	<u>30</u>	<u> </u>	<u>40</u>	<u>30</u>	<u> </u>	<u> </u>
Rec. <u>300'</u>	Feet Of	<u>Water</u>	<u> </u>	<u>100</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>

BHT 139° °F Gravity 37 °API D @ 48° °F Corrected Gravity 39 °API
 RW @ °F Chlorides 30,000 ppm Recovery Chlorides 6,000 ppm System

(A) Initial Hydrostatic Mud	2443	2468	PSI	Recorder No.	3024	T-Started	0100 (CDT)
(B) First Initial Flow Pressure	100	73	PSI	(depth)	4995	T-Open	0337
(C) First Final Flow Pressure	219	254	PSI	Recorder No.	13276	T-Pulled	0637
(D) Initial Shut-in Pressure	950	970	PSI	(depth)	5010	T-Out	1030
(E) Second Initial Flow Pressure	278	293	PSI	Recorder No.	13339		
(F) Second Final Flow Pressure	435	471	PSI	(depth)	5126		
(G) Final Shut-in Pressure	940	964	PSI	Initial Opening	30	Test	
(H) Final Hydrostatic Mud	2346	2401	PSI	Initial Shut-in	45	Jars	X

AK-1 Mech. Alp Eleo.

Final Flow 45 Safety Joint X
 Final Shut-in 60 Straddle X
 on loc. 2330 1-11 Circ. Sub X N/C
 off loc. 1200 1-18 Sampler, as 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 [Signature]

Extra Packer X
 Elect. Rec. X
 Other Shale Pkr. X