



KANSAS CORPORATION COMMISSION 1052281  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
June 2009

Form Must Be Typed  
Form must be Signed  
All blanks must be Filled

**WELL COMPLETION FORM**  
**WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # 30717  
Name: Downing-Nelson Oil Co Inc  
Address 1: PO BOX 372  
Address 2: \_\_\_\_\_  
City: HAYS State: KS Zip: 67601 + 0372  
Contact Person: Michele Mieier  
Phone: ( 785 ) 621-2610  
CONTRACTOR: License # 31548  
Name: Discovery Drilling  
Wellsite Geologist: Ron Nelson  
Purchaser: None

Designate Type of Completion:

- New Well     Re-Entry     Workover
- Oil     WSW     SWD     SIOW  
 Gas     D&A     ENHR     SIGW  
 OG     GSW     Temp. Abd.  
 CM (Coal Bed Methane)  
 Cathodic     Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_  
Well Name: \_\_\_\_\_  
Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_  
 Deepening     Re-perf.     Conv. to ENHR     Conv. to SWD  
 Conv. to GSW  
 Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_  
 Commingled    Permit #: \_\_\_\_\_  
 Dual Completion    Permit #: \_\_\_\_\_  
 SWD    Permit #: \_\_\_\_\_  
 ENHR    Permit #: \_\_\_\_\_  
 GSW    Permit #: \_\_\_\_\_

<u>02/12/2011</u>	<u>02/17/2011</u>	<u>02/18/2011</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-195-22698-00-00  
Spot Description: \_\_\_\_\_  
NE NW SE NE Sec. 12 Twp. 13 S. R. 22  East  West  
1,530 Feet from  North /  South Line of Section  
865 Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE     NW     SE     SW  
County: Trego  
Lease Name: OND West Well #: 1-12  
Field Name: Ogallah South  
Producing Formation: None  
Elevation: Ground: 2243 Kelly Bushing: 2251  
Total Depth: 4090 Plug Back Total Depth: \_\_\_\_\_  
Amount of Surface Pipe Set and Cemented at: 224 Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set: \_\_\_\_\_ Feet  
If Alternate II completion, cement circulated from: \_\_\_\_\_  
feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

**Drilling Fluid Management Plan**

(Data must be collected from the Reserve Pit)

Chloride content: 16000 ppm Fluid volume: 320 bbls  
Dewatering method used: Evaporated  
Location of fluid disposal if hauled offsite: \_\_\_\_\_  
Operator Name: \_\_\_\_\_  
Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_  
Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West  
County: \_\_\_\_\_ Permit #: \_\_\_\_\_

**AFFIDAVIT**

I am the affiant and I hereby certify that 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.

Submitted Electronically

**KCC Office Use ONLY**

- Letter of Confidentiality Received  
Date: \_\_\_\_\_  
 Confidential Release Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution  
ALT  I  II  III Approved by: Deanna Garrison Date: 03/16/2011



1052281

Operator Name: Downing-Nelson Oil Co Inc Lease Name: OND West Well #: 1-12  
Sec. 12 Twp. 13 S. R. 22  East  West County: Trego

**INSTRUCTIONS:** Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems 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 test, along with final chart(s). Attach extra sheet if more space is needed. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

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  
Electric Log Submitted Electronically  Yes  No  
*(If no, Submit Copy)*

Log Formation (Top), Depth and Datum  Sample  
Name Top Datum  
Attached Attached Attached

List All E. Logs Run:

Micro  
Dual Induction  
Compensated Density/Neutron

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 Pipe	12.25	8.625	23	223.85	Common	150	2% Gel & 3% CC

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
___ Perforate				
___ Protect Casing	-			
___ Plug Back TD				
___ Plug Off Zone	-			

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR. \_\_\_\_\_ 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 ACO-18.)*  
METHOD OF COMPLETION:  Open Hole  Perf.  Dually Comp.  Commingled *(Submit ACO-5)*  Commingled *(Submit ACO-4)*  
 Other (Specify) \_\_\_\_\_  
PRODUCTION INTERVAL: \_\_\_\_\_

Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	OND West 1-12
Doc ID	1052281

Tops

Top	Top	Depth
Top Anhydrite	1674	+577
Base Anhydrite	1716	+535
Topeka	3324	-1073
Heebner	3553	-1302
Toronto	3570	-1319
LKC	3586	-1335
BKC	3828	-1577
Marmaton	3916	-1665
Charokee Shale	3962	-1711

# QUALITY OILWELL CEMENTING, INC.

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 4812

Date: <u>2-12-11</u>	Sec. <u>12</u>	Twp. <u>13</u>	Range <u>22</u>	County <u>Trego</u>	State <u>KS</u>	On Location	Finish <u>7:30pm</u>
Lease <u>OWD WEST</u>	Well No. <u>1-13</u>		Location <u>Riga 5 NR 3w 5.1to</u>				
Contractor <u>Discovery #1</u>				Owner			
Type Job <u>Surface</u>				To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.			
Hole Size <u>12 1/4</u>	T.D. <u>224</u>		Charge To <u>Dawning/Nelson</u>				
Csg. <u>8 5/8</u>	Depth <u>224</u>		Street				
Tbg. Size	Depth		City				
Tool	Depth		State				
Cement Left in Csg. <u>15'</u>	Shoe Joint		The above was done to satisfaction and supervision of owner agent or contractor.				
Meas Line	Displace <u>13BC</u>		Cement Amount Ordered <u>150 Cap 3 1/2" 2 1/2" 1 1/2"</u>				

**EQUIPMENT**

Pumptrk <u>9</u>	No.	Cement Helper <u>Chas</u>	Common <u>150</u>
Bulktrk	No.	Driver	Poz. Mix
Bulktrk <u>8</u>	No.	Driver <u>Con</u>	Gel. <u>3</u>
<b>JOB SERVICES &amp; REMARKS</b>			Calcium <u>5</u>

Remarks:	Hulls
Raf Hole	Salt
Mouse Hole	Flowseal
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
<u>8 5/8 on bottom Est. Circulation - Mix</u>	Sand
<u>150 SK 4 D. 5 Hagg</u>	Handling <u>159</u>
<u>Cement Circulation</u>	Mileage

**FLOAT EQUIPMENT**

Guide Shoe
Centralizer
Baskets
AFU Inserts
Float Shoe
Latch Down

Quality Oilwell  
Cementing

Pumptrk Charge Surface  
Mileage 23

Tax
Discount
Total Charge

X Signature Clay Mayfield

# QUALITY OILWELL CEMENTING, INC.

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 4756

Date	2-18-11	Sec.	12	Twp.	13	Range	22	County	Trego	State	Ks	On Location		Finish	10:30 AM
Lease	OND west		Well No.	1-12		Location		Riga Exit + I-70, S to Rd N,							
Contractor	Discovery #1														
Type	Job plug														
Hole Size	7 7/8"														
Csg.	T.D. 4090'														
Tbg. Size	4 1/2"														
Tool	Depth 1700'														
Cement Left in Csg.	Depth														
Meas Line	Shoe Joint														
	Displace H2O/mud														
	Owner 32 W Side														
	To Quality Oilwell Cementing, Inc.														
	You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.														
	Charge To Downing - Nelson														
	Street														
	City														
	State														

The above was done to satisfaction and supervision of owner agent or contractor.

EQUIPMENT		
Pumptrk	5	No. Cementer Helper Brandon
Bulktrk	3	No. Driver Cisco
Bulktrk	pu	No. Driver Rick

Cement Amount Ordered 220 SK 60/40 4% Gel  
Yuh F.S.

**JOB SERVICES & REMARKS**

Remarks:

Rat Hole 30 SK

Mouse Hole 15 SK

Centralizers

Baskets

D/V or Port Collar

1700' - 25 SK

850' - 100 SK

295' - 40 SK

40' - 10 SK

Rathole - 30 SK

Mousehole - 15 SK

Cement did Circulate.

Common 132

Poz. Mix 88

Gel. 8

Calcium

Hulls

Salt

Flowseal 50#

Kol-Seal

Mud CLR 48

CFL-117 or CD110 CAF 38

Sand

Handling 228

Mileage

**FLOAT EQUIPMENT**

Guide Shoe

Centralizer

Baskets

AFU Inserts

Float Shoe

Latch Down

1 - Wooden Dry hole plug

Pumptrk Charge plug

Mileage 32

Signature *Chf. Mayfield*

Tax

Discount

Total Charge





1502535

1750

3200

50

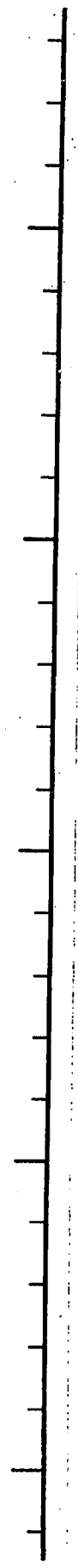
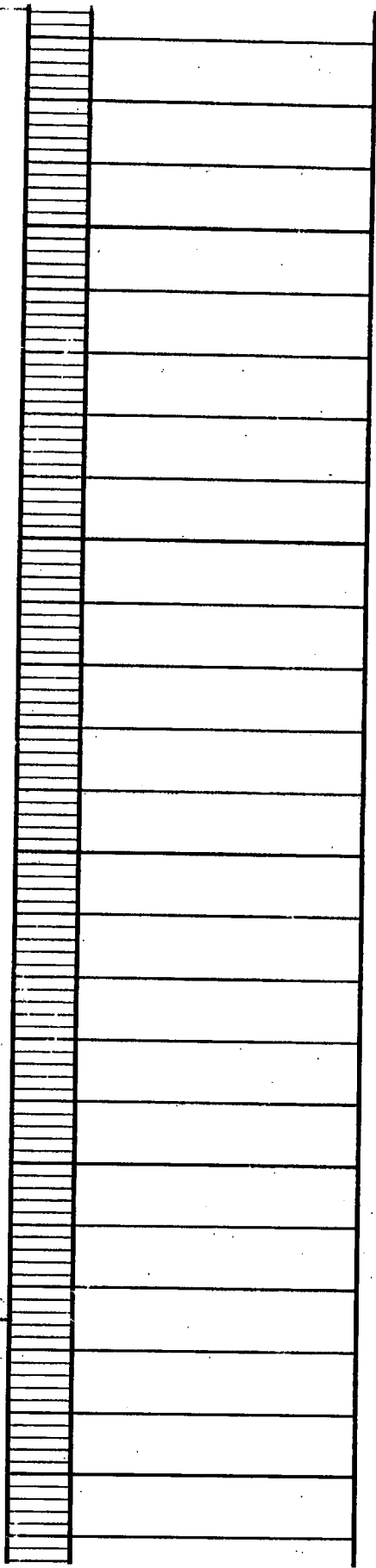
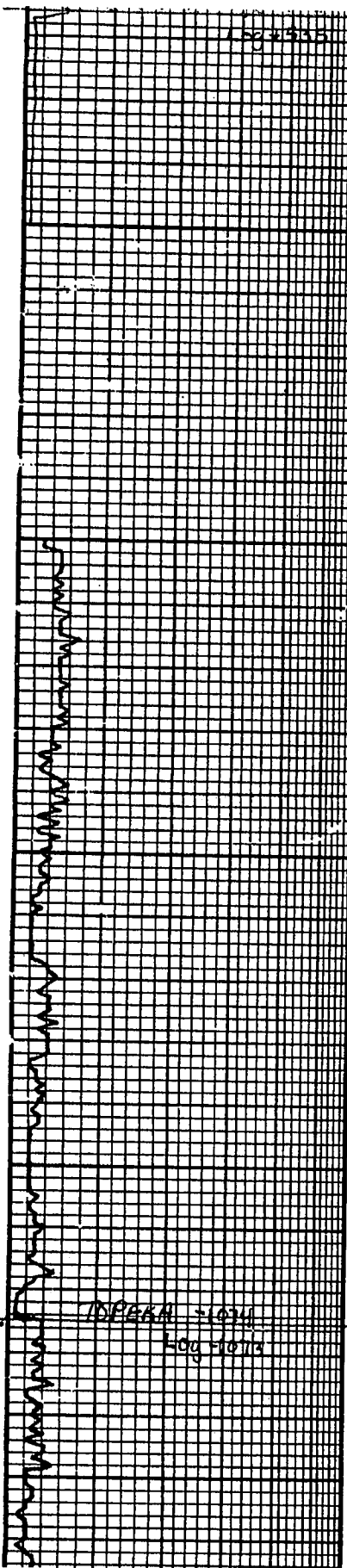
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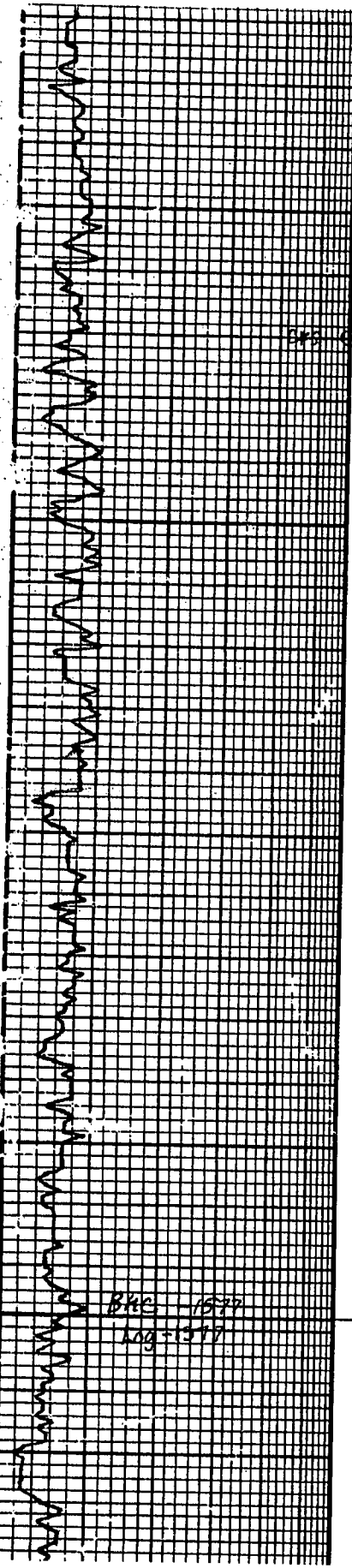
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DISPLACED









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3700

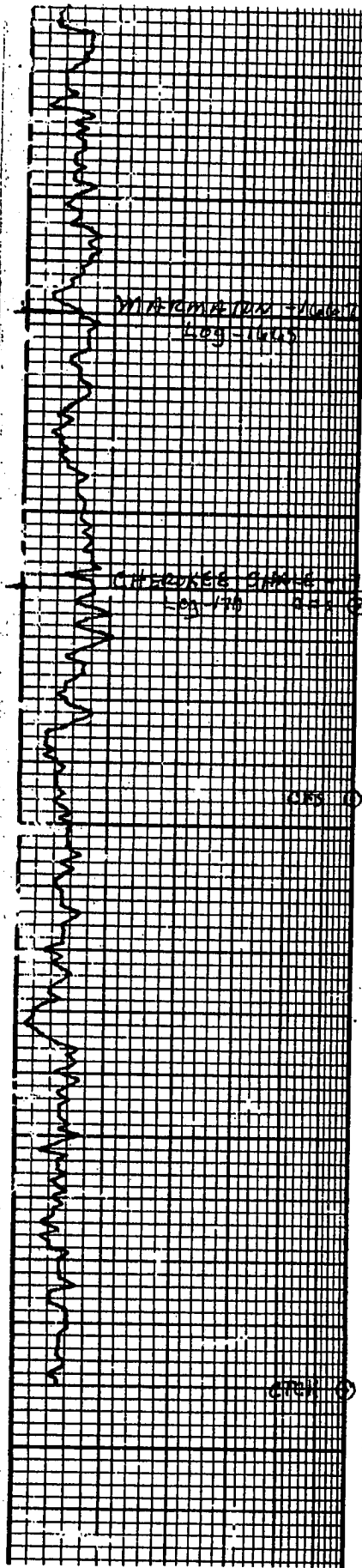
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3800

50

sh dk gry  
 ls tan, sm glauc-foss in fragm mat  
 dns, not friable, sctd in f. foss  
 slod. ssfo. mst blk scaly int foss  
 sh sm mic xylu gry barren  
 dk gry sh  
 ls wh tan mic xylu uv dns  
 no app #ns  
 sh blue carb  
 gry Ben  
 ls wh. f. sctd foss in v. fragm mat  
 pr xyl. f. foss a. tw pgs blk int  
 foss sh no od w/fo  
 gry sh  
 + tan v chky sct ls w/ foss,  
 friable ns  
 gry sh  
 3d gry  
 ls tan tw pgs ool-foss w/  
 mt ool & friable ns.  
 ls wh mic xylu uv dns  
 no app #ns  
 sh blue carb  
 mic xylu uv dns gry  
 sh su dk gry gry  
 ls wh fr xylu, suc w/ 1-2 fr  
 xyl & ns.  
 frag. v fr xylu v dns p #  
 ns. no chkd  
 sh v dk gry, gry, plky  
 dns tan-wh fr xylu cs  
 AHL p # ns.  
 aa w/ trc chd  
 sh dk gry  
 ls tan dk gry mst fr xylu mod  
 dns pr xyl & ns  
 fw w/ trc foss in fr mat  
 w/ trancht  
 sh v dk gry, gry, Ben  
 ls tan mic xylu uv dns  
 v pr xyl & ns.  
 as above w/ trc chd  
 w/ trancht  
 sh blue carb  
 ls tan gry, tan sm dk gry  
 in pt mst tan md xylu fr.  
 pr xyl & ns.  
 frag mic xylu uv dns no app  
 #ns  
 sh gry v dk gry  
 ls tan gry v fr xylu uv dns  
 no app # ns.  
 sh RO Ben  
 ls gry- tan mic xylu v pr  
 xyl & ns

BKC 1677  
 100-1517



3900

MARTINBURY - MARTINBURY LOG - 11665

50

CHEROKEE SHALE - 11665

4000

50

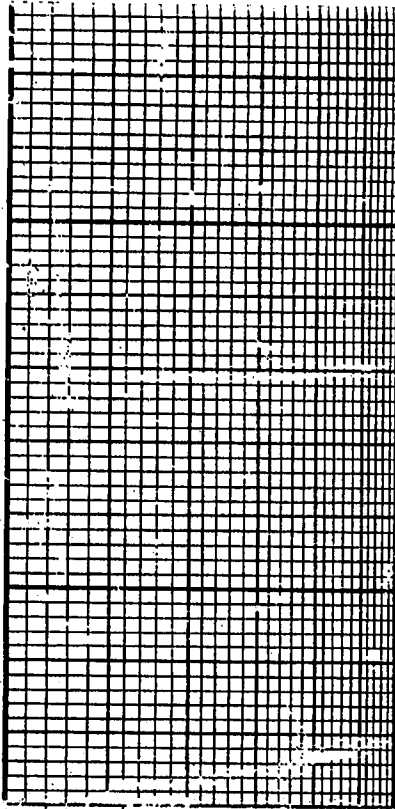
4100

all shs gray blk
Dk gray blk
vdns mic vly Ls up
shs gray blk no
sm vdk gray sh
orange chf
sh dk gray gn
Ls tan wh mic vly vdns
no app of ns.
with tan wh op & Ls brn fr
sm vly ss, slod, fr app & vly p
Ls gen wh sm brn tan sh vly fr
ss fr d, sm edgestn, sm
cht tan wh.
Ls chf wh tan op & vly fr
ns
prly all tan wh bns chf
SH BLK CARB
SHS BLK GRAY BLK
tan wh chf
BLK
tan y lvs wh shp chf ns
RD. SHALE
BLK SH
washes very no
shs aa
cht wh tan op, y lvs shp
frsh ns.
SH Dk gray BLK
sm sold ss clstgs fr gen dirty
w/ int mixed chf & shs, sm
glau ss all ns.
ss clstgs v fr gen ns or sold
sm chn sm dirty w/ sm glau
SH BUCCARA
vari color chf, tan wh shp
frsh
Dk gray sh
vari color chf wh tan op shp
frsh, sm y lvs, sm tan pstric
RD
all w/ sm intermped ss clstgs
sm no gen chn sm dirty fr
dirty, pr sold sm glau fr
gen ss all ns, no sold
NO OD
mostly all wh chf

DST # 1

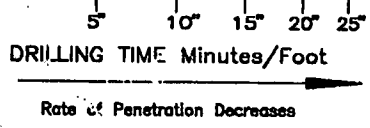
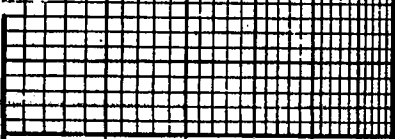
DST # 1  
 3930-3964'  
 1st op wh glau 20"  
 2nd op 1120  
 IFP 13-18  
 FFP 20-22  
 SID 818-719  
 HP 1969-1922  
 REC 10' HOCM  
 30% oil  
 70% mud

*R. M. M. M.*



50

4200



DEPTH

LITHOLOGY

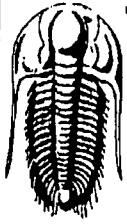
SAMPLE DESCRIPTIONS

OIL SHOWS

REMARKS

OPERATOR DNOCI  
 LEASE ONA WEST #1-12 IP A&A  
 ELEVATION 2251' KB RTD 4090'

LOCATION 1530' FNL & 965' FEL 12-13-22  
 SEC 12 TWP 13S RNG 22W  
 COUNTY TREGO STATE KANSAS



**TRILOBITE  
TESTING, INC**

**ESJMMTUFN!UFTU!SFQPSU**

EOPD  
QPI Cpy!483  
I bzt -!Lt !/78712, 1483  
BUU; S!O f rmpo

**OND west #1-12**  
**12-13s-22w Trego**  
Kpc!Ujdl f u 152661 **DST#: 1**  
Uf t uTubs; 3122/13/28!A !16;25;16

HF OF SBM.DGP SNBUPO;

Qpsn bupo; **Marmaton**  
Ef wjbf e; Op X i jqt upd! ; g!)LC\*  
Ujn f !Upnt!Pqf of e; 18;45;41  
Ujn f !Uf t uFoef e; 22;22;31

Uf t uLzqf; Dpowf oypobnt!Cpupn !I prf  
Uf t u f s; Boez!Dbsf jsb  
VojuOp; 4:

Interval: **3930.00 ft (KB) To 3964.00 ft (KB) (TVD)**  
Upbrnt!Ef qu; 4: 75/11 g!)LC\* )UAE\*  
I prf!Ejbn f u f s; 8/99 jodi f t l prf!Dpoej!upo; Gbs

Sf g f s f odf !Frfwbjpot; 3362/11 g!)LC\*  
3354/11 g!)DG\*  
LC!up!HSODG 9/11 gu

**Serial #: 8352**

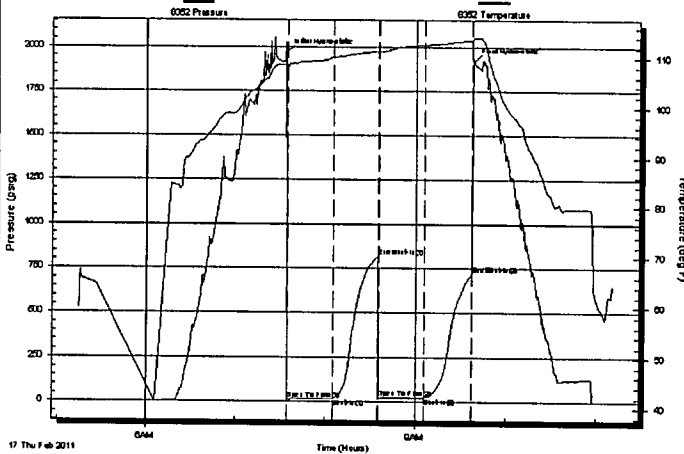
**Outside**

Qsf t t A SvoEf qu; 33/51 qt jh A 4: 42/11 g!)LC\*  
Tubs!Ebf; 3122/13/28 Foel!Ebf; 3122/13/28  
Tubs!Ujn f; 16;25;16 Foel!Ujn f; 22;22;31

Dbqbdjz; 9111/11 qt jh  
Mbt uDbrjo!; 3122/13/28  
Ujn f !P o!Cun; 3122/13/28!A !18;44;51  
Ujn f !P g!Cun; 3122/13/28!A !1: ;49;1:

UFTUDPNNFOU; G!X f bl !t vsqdf !cpx -!ejf e!ljo!31!n jo/  
J;!Op!Sf wso  
GG!Op!Cpx  
GF;!Op!Sf wso

Pressure vs. Time



QSFTTVSF!TVNNBSZ

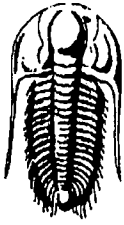
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1	2: 7: /: 4	219/91	Jbjbrth zesp.t ubjd
2	24/32	218/83	Pqf olUp!Gpx )2*
43	29/75	221/22	Ti vu.b)2*
72	929/87	222/45	Foel!Ti vu.b)2*
73	31/28	221:/ 8	Pqf olUp!Gpx )3*
: 3	33/51	223/72	Ti vu.b)3*
235	82: /59	224/71	Foel!Ti vu.b)3*
236	2: 33/5:	225/13	Gobrth zesp.t ubjd

Sf dpwf sz

Mohu )gt	Ef t dsqjpo	Vjrn f )corh
21/11	I PDN!p>41& !n >81&	1/16

Hbt !Sbf t

Di pl f )jodi ft*	Qsf t t vsf )qt jh*	Hbt !Sbf )N N dge*



**TRILOBITE  
TESTING, INC**

ESJMMTUFN!UFTU!SFQPSU

FLUID SUMMARY

EOPD

OND west #1-12

QP!Cpy!483  
I bzt -!Lt !/78712, 1483

12-13s-22w Trego

Kpc!Udl f u 152661 DST#: 1

BUUO; S!Of rmpo

Uf t uTubsu 3122/13/28!A !16;25;16

**Mud and Cushion Information**

Nve!Lzqf; Hf r!Di f n	Dvt i jpo!Lzqf;	Pjt!BQJ	ef h!BQJ
Nve!X f jhi u : /11 r!ohbm	Dvt i jpo!M ohu;	gu X buf s!Tbrjoz;	qqn
Vt dpt jz; 68/11 t f d!u	Dvt i jpo!W!rwn f;	ccm	
X buf s!Mpt t; 9/11 jpu	Hbt !Dvt i jpo!Lzqf;		
Sf t jt !vjuz; pi n/n	Hbt !Dvt i jpo!Q!f t t vsf;	qt jh	
Tbrjoz; 4111/11 qqn			
Qr! s!Dbl f; jodi f t			

**Recovery Information**

Sf dpw! sz!Ubcfrh

M ohu gu	Ef t dsqjpo	W!rwn f ccm
21/11	I PDN!p>41& !n>81&	1/15:

U!br!M ohu; 21/11 gu U!br!W!rwn f; 1/15: ccm

Ovn !Gnje!Tbn qrit; 1 Ovn !Hbt !Cpn ct; 1 Tf sbr!S;

M!c!ps!bz!Cbn f; M!c!ps!bz!M!db!jpo;

Sf dpw! sz!Dpn n f out;

