

Confidentiality Requested:

Yes No

**KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION**

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

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

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

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 EOR Conv. to SWD

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Recompletion Date _____ Date Reached TD _____ Completion Date or Recompletion Date _____

API No.: _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ 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: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

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

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops 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.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

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				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Bowman, William F. dba The Bill Bowman Oil Company
Well Name	EUNICE BERLAND 1
Doc ID	1476514

All Electric Logs Run

Dual Comp Porosity Log
Dual Induction Log
Microresistivity Log
Computer Processed Interpretation

Form	ACO1 - Well Completion
Operator	Bowman, William F. dba The Bill Bowman Oil Company
Well Name	EUNICE BERLAND 1
Doc ID	1476514

Tops

Name	Top	Datum
Anhydrite Top	1635	+568
Anhydrite Base	1664	+539
Topeka	3209	-1006
Heebner	3421	-1218
Lansing	3461	-1258
Base of Kansas City	3668	-1465
Conglomerate	3695	-1492
Arbuckle	3820	-1617
RTD	3880	-1677

GLOBAL OIL FIELD SERVICES, LLC

13817

Eunice Berland #1

REMIT TO 24 S. Lincoln
Russell, KS 67665

SERVICE POINT: Russell KS

DATE <u>9-9-19</u>	SEC <u>20</u>	TWP. <u>10S</u>	RANGE <u>19W</u>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH <u>6:30PM</u>
LEASE <u>Unice Berland</u>	WELL # <u>1</u>	LOCATION <u>2w of Zurich KS 1/2 Sect East</u>			COUNTY <u>ROCKS</u>	STATE <u>KS</u>	
OLD OR <input checked="" type="radio"/> NEW (CIRCLE ONE)			into				

CONTRACTOR White Knight Drilling Rig #1 OWNER Bowman Oil Co.

TYPE OF JOB _____

HOLE SIZE _____ T.D. _____

CASING SIZE 8 5/8 DEPTH 259'

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. 25'

PERFS _____

DISPLACEMENT _____

EQUIPMENT _____

PUMP TRUCK CEMENTER Cody

417 HELPER Jasen

BULK TRUCK _____

411 DRIVER Eddie

BULK TRUCK _____

_____ DRIVER _____

CEMENT AMOUNT ORDERED 175 SKS 60/40 PER

2661 3/8 CC

COMMON _____ @ _____

POZMIX _____ @ _____

GEL _____ @ _____

CHLORIDE _____ @ _____

ASC _____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

HANDLING _____ @ _____

MILEAGE _____ @ _____

TOTAL _____

REMARKS:
Run bit of 8 5/8 casing + bit Halted to rig + make circulation hooked to truck + pumped 175 SKS of cement + displaced 15 hrs of H2O + shut in.

Cement did circulate to surface.

CHARGE TO: Bowman Oil Co.

STREET _____

CITY _____ STATE _____ ZIP _____

Global Oil Field Services, LLC
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) 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 and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME MP

SIGNATURE Main P...

SERVICE

DEPTH OF JOB _____

PUMP TRUCK CHARGE _____

EXTRA FOOTAGE _____ @ _____

MILEAGE _____ @ _____

MANIFOLD _____ @ _____

_____ @ _____

TOTAL _____

PLUG & FLOAT EQUIPMENT

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

TOTAL _____

SALES TAX (If Any) _____

TOTAL CHARGES _____

DISCOUNT _____ IF PAID IN 30 DAYS

Roger L. Moses

P.O. Box 385
Hays, Kansas 67601
Email: mosesoil@reagan.com
Phone: 785.656.1729

**GEOLOGIC
REPORT
LOG**

COMPANY Bill Bowman Oil Co.
Natoma, Kansas

WELL Eunice Berland #1

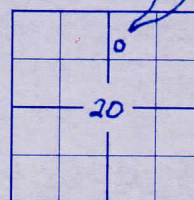
FIELD Berland East

LOCATION 4532' FSL & 2500' FEL

SEC. 20 TWP. 10s RGE. 19w

COUNTY Rooks

STATE Kansas



PRODUCTION Dry

ELEVATION KB 2203'

DF

GL 2198'

Drilling Measured From: Kelly Bushing

Samples Saved From 3100' To: T.D.

Drilling Time From 3050' To: T.D.

Samples Examined From: 3100' To: T.D.

Geological Supervision From 2950' To Total Depth

Wellsite Geologist Roger L. Moses

Electrical Surveys Dual Induction

Microresistivity

Porosity

Pioneer Energy Services

OPERATOR Bill Bowman Oil Co.

CONTRACTOR White Knight Drllg LLC

COMM: 9-9-2019 COMP: 9-14-2019

CASING RECORD

SURF: 259' (8 3/8") PROD:

TOTAL DEPTH DRILLERS: 3880'

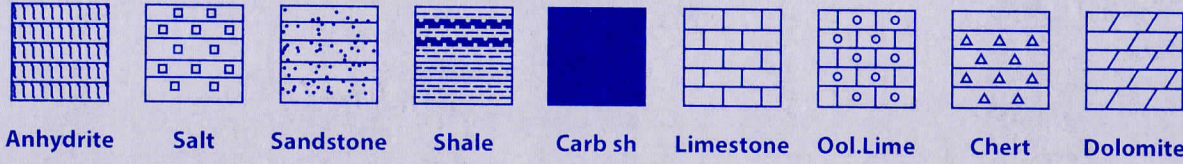
TOTAL DEPTH LOG: 3880'

FORMATION TOPS AND STRUCTURAL POSITION

FORMATION	SAMPLE TOP	ELECTRIC LOG TOP	SUB-SEA DATUM	STRUCTURAL POSITION
Anhydrite Top	1635(+568)	1634	+569	-16
Anhydrite Base	1664(+539)	1664	+539	NA
Topeka	3209(+1006)	3204	-1001	NA
Heebner	3421(-1218)	3421	-1218	-17
Lansing	3461(-1258)	3460	-1257	-17
B/Kansas City	3668(-1465)	3678	-1475	-28
Conglomerate	3695(-1492)	3719	-1516	NA
Arbuckle	3820(-1617)	3816	-1613	-55

REFERENCE WELL FOR STRUCTURE Rex E Morris Drllg Co.;
Berland B-1, NE-SE-NW (3630' FSL & 2970' FEL)
Sec 20-10s-19w; Rooks County, Kansas

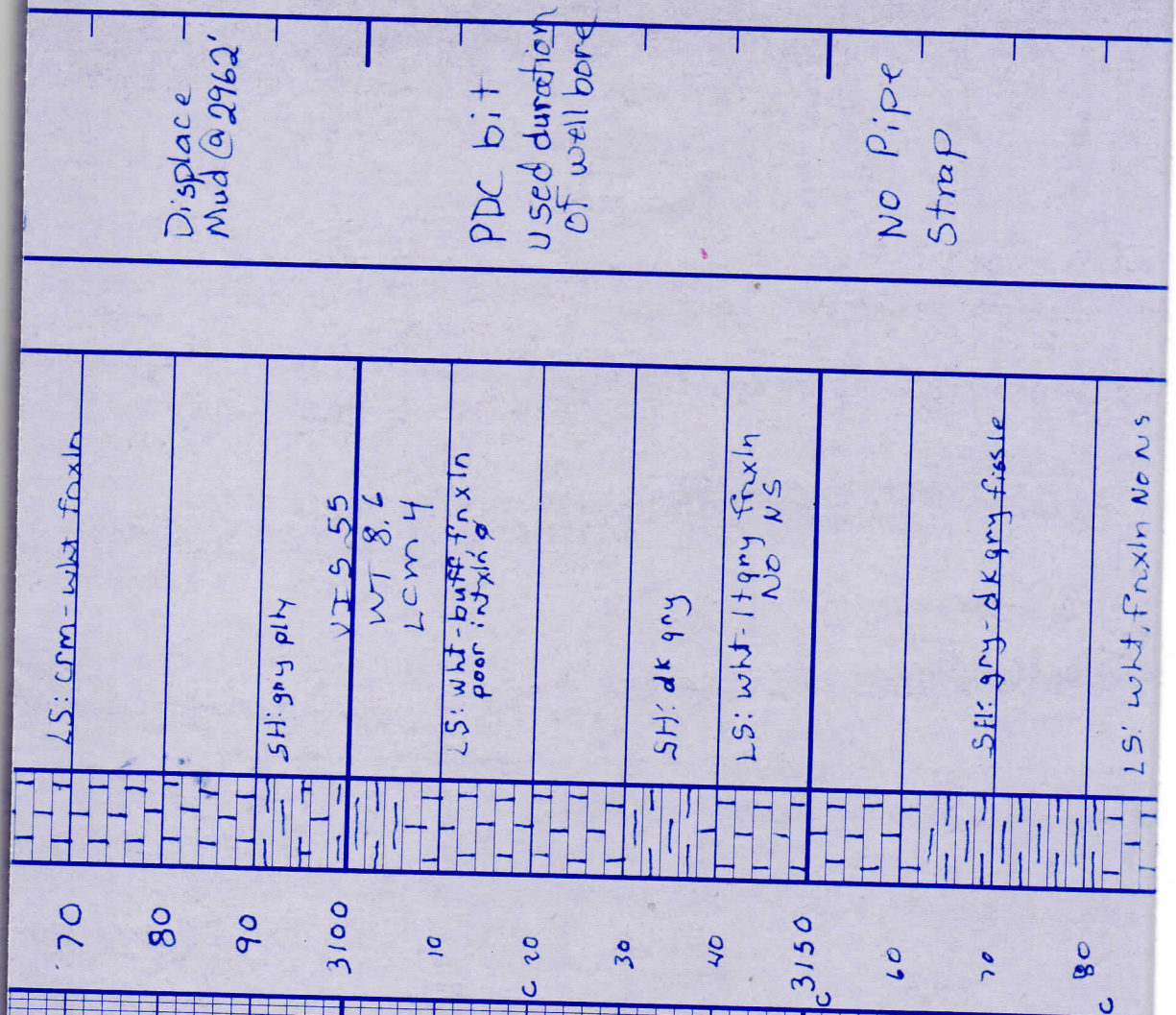
LEGEND



DRILLING TIME IN MINUTES PER FOOT Rate of Penetration Decreases 5" 10" 15" 20" 25"	DEPTH	LITHOLOGY	SAMPLE DESCRIPTIONS	OIL SHOWS	REMARKS
	1630	Anhydrite			DV Survey @ 259' Y4°
	40	Anhydrite			
	50	Anhydrite			
	60	Anhydrite			
	70	Anhydrite			
	~ 60	Limestone			Geologist on Location @ 2965'

Anhydrite Top 1635
(+568)

Anhydrite Base
1664
(+539)

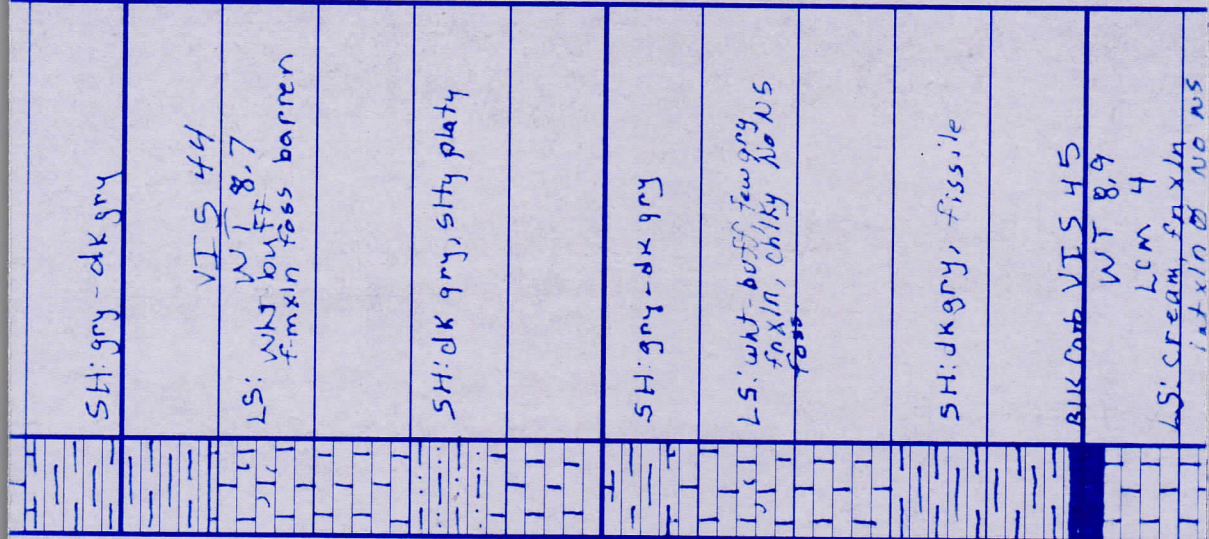


Displace
Mud @ 2962'

PDC bit
used duration
of well bore

NO Pipe
Strap

90
3200
10
20
30
40
3250
60
70
80
90
3300
10



SH: gry - dk gry

VIS 44

WT 8.7
LS: wht buff
f-mxin foss barren

SH: dk gry, silty platy

SH: gry - dk gry

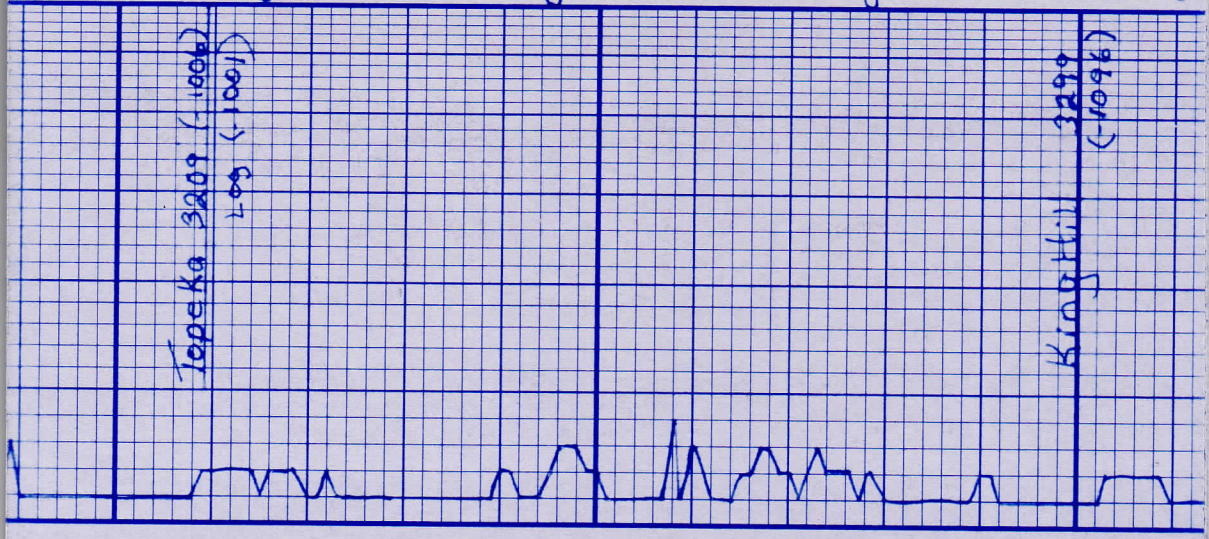
LS: wht - buff few gry
f-mxin, Chlky No US
foss

SH: dk gry, fissile

BLK Carb VIS 45

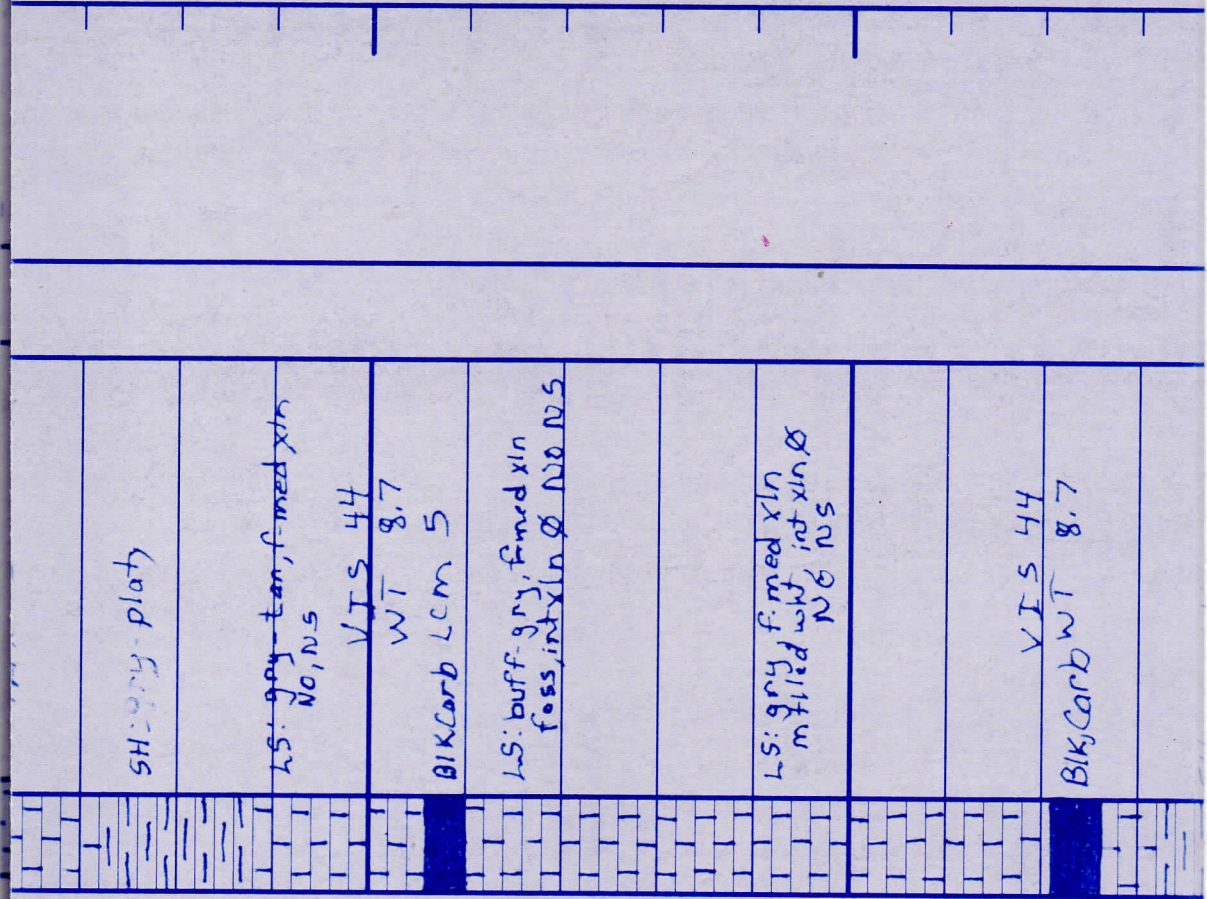
WT 8.9
LCM 4

LS: cream, f-mxin
int xln @ NO US

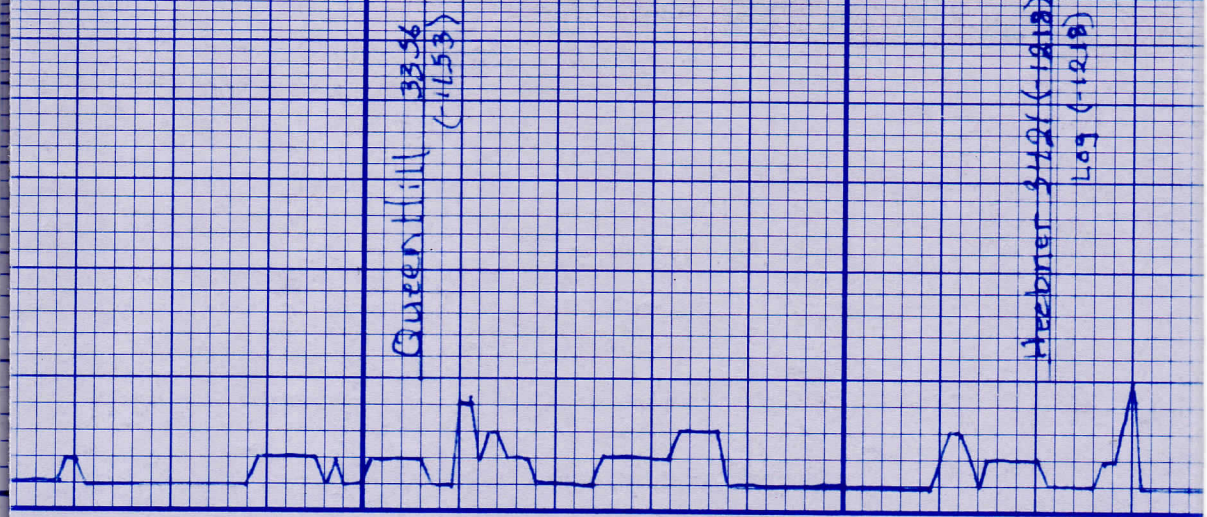


Topeka 3209 (-1006)
Log (-1001)

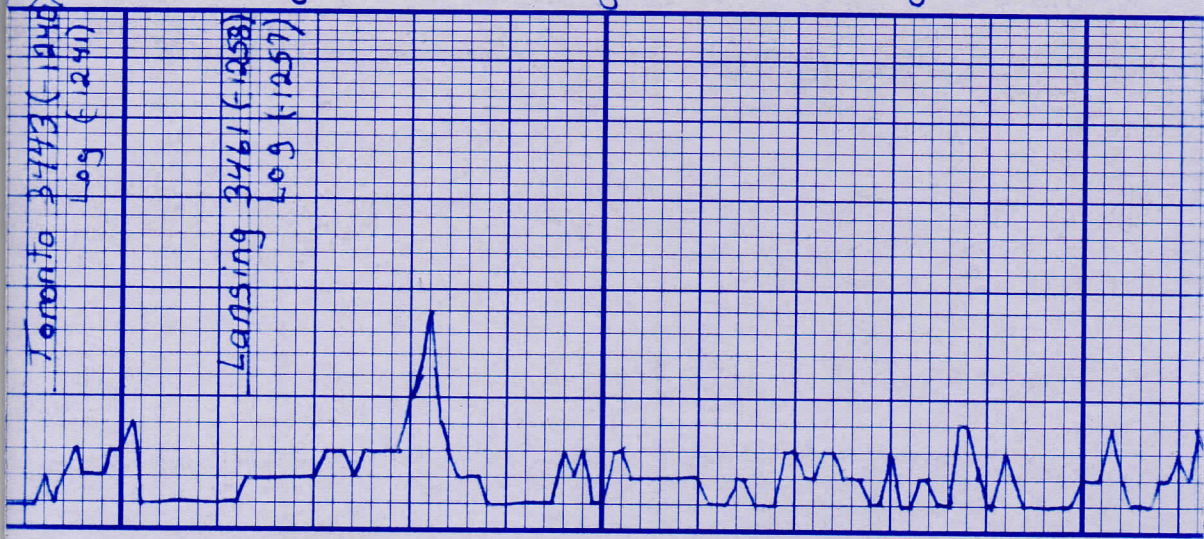
Kings Hill 3299
(-1096)



20
30
40
3350
60
70
80
90
3400
10
20
30



Queen Hill 3356 (-1153)
Heebiner 3421 (-1212) Log (-1212)



SH: gry, slt, gummy	40
LS: crm-wht, fnxln foss, NO, NS	3450
LS: tan-wht, fnxln dense, ppø-oomø Fer, Siodor if str.	60
SH: dk gry, blk	70
LS: crm, fnxln, intxlnø ppø, NO, NS	80
SH: dk gry, blk	90
LS: crm, fnxln, intxlnø ppø, NO, NS	c.3500
SH: gry, plty	10
LS: crm-tan, fnxln chky, intxlnø, NO, NS	20
SH: gry, plty	30
LS: crm-tan, fnxln chky, intxlnø, NO, NS	40
SH: gry, plty	3550
LS: crm-tan, fnxln chky, intxlnø, NO, NS	60

○



Base/Kansas City
 3668
 (-465)
 109(475)

70	LS: 5 a/a	
80	BIK Carb	
90	LS: wlt-tan, faxln, indxn StrOdor	
3600	VIS 48 Break w/ 9.1 LEM 2	
10	LS: wlt-tan, faxln, indxn VSlidior very Lt-str	
20		
30	LS: 5 a/a	
40	BIK Carb SA	
3650	LS: CRM-wlt faxln indxn, weak odor Sl, stair	
60	BIK Carb SL LS: CRM-lt grey, faxln indxn, Sl: st.	
70	SH: Var. clod, mushy blk, pcs of Δ	
80		

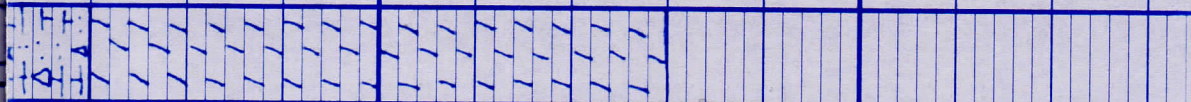


90	SH: 5 a/a	
3700	VIS 45 WT: 9.0 LCM 1	
10	CG: 1.5 wkt-tan fr-mud xin, foss	
20	SND: sub angular, cln grns	
30	chert: tan-blk	
40	SH: Varic ind washing red	
3750		
60		
70	VIS 54 WT 9.2 LCM 5	
80		
90	CG: 1.5 wkt-tan fr-xin porif xin & few foss	
3800	SND: pcs of sub angular to rounded gr, clear, none cmtd	
10	chert: blk, tan, wkt. SH: varic ind, pity-biky gummy.	

Arbuckle 3820

(-1617)
209-1613

c 20
30
40
c3850
60
70
80



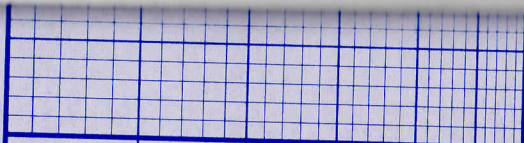
Dolo: white, suc/Rhomb
x15, PP med-Coarse in
No NS

Dolo: 5 a/a, No NS

VIS 54
WT 9.2
LCM 5

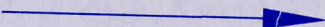
Dolo: 5 a/a barren

Total Depth
3880'



5" 10" 15" 20" 25"

DRILLING TIME Minutes/Foot



Rate of Penetration Decreases

DEPTH

LITHOLOGY

SAMPLE DESCRIPTIONS

OIL SHOWS

REMARKS

CONTRACTOR White Knight Drlg Co LLC

LOCATION 4532' FSL E 2500' FEL

LEASE Eunice Berland IP Dry

SEC 20 TWP 10s RNG 19w

ELEVATION 2203 KB RTD 3880

COUNTY Rooks STATE Kansas