



**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       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 #: \_\_\_\_\_

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

API No. 15 - \_\_\_\_\_

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

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total 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**

- Letter of Confidentiality Received  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_



1086046

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**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 <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 Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
---	---

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
_____ 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
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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> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Bowman, William F. dba The Bill Bowman Oil Company
Well Name	Hrabe A 4
Doc ID	1086046

All Electric Logs Run

Dual Induction Log
DualCompensated Porosity Log
Borehole Compensated Sonic Log
Microresistivity Log
Computer Processed Inerpretation

Form	ACO1 - Well Completion
Operator	Bowman, William F. dba The Bill Bowman Oil Company
Well Name	Hrabe A 4
Doc ID	1086046

Tops

Name	Top	Datum
Anhydrite	1220	+705
Base of Anhydrite	1256	+669
Topeka	2809	-884
Heebner	3026	-1101
Lansing	3067	-1142
Base of Kansas City	3307	-1382
Arbuckle	3384	-1459
RTD	3468	



Form	ACO1 - Well Completion
Operator	Bowman, William F. dba The Bill Bowman Oil Company
Well Name	Hrabe A 4
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#### Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
12	3049 - 3052	250 gas of 15% MCA & Flush	3276 - 3281
12	3230 - 3233	Retreat-750 gal 15% NE & Flush	3276 - 3281
8	3252 - 3254	250 gal 15% MCA & Flush	3252 - 3254
20	3276 - 3281	Treat Perfs- with 1000 gal 15% NE HCL	3230 - 3233 & 3252 - 3254
		Treat formation with 15% MCA & Flush	3049 - 3052
		Treat with 750 gals 15% NE	3049 - 3052

# ALLIED OIL & GAS SERVICES, LLC 056397

Federal Tax I.D.# 20-5975804

MAIL TO PO BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT:  
Russell Ks.

DATE <u>9-30-12</u>	SEC. <u>1</u>	TWP. <u>9 S</u>	RANGE <u>17 W</u>	CALLED OUT	ON LOCATION	JOB START <u>11:00 AM</u>	JOB FINISH <u>11:30 AM</u>
LEASE # <u>10-10-10</u>	WELL # <u>A-4</u>	LOCATION <u>Codell Ks. 6 1/2 N 1 E</u>		COUNTY <u>ROCKS</u>	STATE <u>KANSAS</u>		
OLD OR NEW (Circle one) <u>NEW</u>				YAS			

CONTRACTOR T. J. Property Rig # 7

TYPE OF JOB Cement Surface

HOLE SIZE 12 1/4 T.D. 233'

CASING SIZE 8 5/8 used DEPTH 232'

TUBING SIZE 20 # DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 15'

PERFS.

DISPLACEMENT 13 1/4 BBL

OWNER

CEMENT

AMOUNT ORDERED 150 SX Comm.

3% cc

2.8 Gel

COMMON 150 sx @ 16.25 2437.50

POZMIX @

GEL 3 sa @ 21.25 63.75

CHLORIDE 5 sx @ 58.20 291.00

ASC @

HANDLING 155 Total SX @ 2.25 348.75

MILEAGE 45 TD Mile @ 11¢ 495.00

TOTAL 3908.25

EQUIPMENT

PUMP TRUCK CEMENTER Gleason G.

# 417 HELPER Woody O.

BULK TRUCK

# 481 DRIVER Cody H.

BULK TRUCK

# DRIVER

REMARKS:

Ran 5 JT'S OF USED 8 5/8 DSG.

Set @ 22' Received Circulation

& Cement w/ 150 SX Comm 3% cc

Displace 13 1/4 BBL H<sub>2</sub>O & Shut in

@ 2.50 #/L

Cement Did Circulate

TO SURFACE

ZHOAK'S

SERVICE

DEPTH OF JOB

PUMP TRUCK CHARGE 1125.00

EXTRA FOOTAGE @

MILEAGE 45 HVME @ 7.00 315.00

MANIFOLD @

45 LV ME @ 4.00 180.00

CHARGE TO: BOWMAN, William / DBA Bill Bowman Oil Co.

STREET

CITY STATE ZIP

TOTAL 1620.00

PLUG & FLOAT EQUIPMENT

@

@

@

@

@

TOTAL

SALES TAX (If Any) 195.91

TOTAL CHARGES 5528.25

DISCOUNT 20/50 1484.32 IF PAID IN 30 DAYS

PRINTED NAME

SIGNATURE [Signature]

To: Allied Oil & Gas 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.





Services, Inc.

CHARGE TO: Bowman O.I. Co.  
 ADDRESS: \_\_\_\_\_  
 CITY, STATE, ZIP CODE: \_\_\_\_\_

PAGE 1 OF 2

TICKET No 21444

SERVICE LOCATIONS  
 1. Hays, KS  
 2. Ness City, KS  
 3. \_\_\_\_\_  
 4. \_\_\_\_\_

WELL/PROJECT NO. # 4  
 LEASE " " A  
 H-1-1-1  
 Rigs Rocks  
 COUNTY/PARISH \_\_\_\_\_  
 STATE KS  
 CITY \_\_\_\_\_

DATE 5-5-12  
 OWNER \_\_\_\_\_

CONTRACTOR INTEGRITY D-I-G Co. #4  
 CONTRACTOR RIG NAME/NO. \_\_\_\_\_  
 TICKET TYPE  SERVICE  SALES

WELL TYPE \_\_\_\_\_  
 WELL CATEGORY \_\_\_\_\_  
 JOB PURPOSE \_\_\_\_\_  
 WELL PERMIT NO. \_\_\_\_\_  
 WELL LOCATION \_\_\_\_\_

INVOICE INSTRUCTIONS  
 011  
 Development  
 2-stage

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING	DESCRIPTION	QTY.	UNIT	PRICE	AMOUNT
575			MILEAGE # 113	50 mi		6.00	300.00
579			Pump Charge (2-stage)	1 eq		1850.00	1850.00
221			KCL	4 gal		25.00	100.00
281			Mudflash	500 gal		1.25	625.00
290			D-Air	4 gal		35.00	140.00
402			Centralizers	6 eq		70.00	420.00
403			Baskets	2 eq		250.00	500.00
407			Insert Floot Shoe W-Fill	1 eq		350.00	350.00
408			D.V. Tool w/ Plug Set	1 eq		3000.00	3000.00
417			D.V. L.D. Plug + Backfill	1 eq		200.00	200.00

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

X  
 DATE SIGNED 5-5-12  
 TIME SIGNED 1:45 PM  
 APPROVAL *[Signature]*

SWIFT OPERATOR *[Signature]*

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES  
 The customer hereby acknowledges receipt of the materials and services listed on this ticket.

REMIT PAYMENT TO:  
 SWIFT SERVICES, INC.  
 P.O. BOX 466  
 NESS CITY, KS 67560  
 785-798-2300

APPROVAL \_\_\_\_\_

DATE SIGNED \_\_\_\_\_

TIME SIGNED \_\_\_\_\_

AM \_\_\_\_\_

PM \_\_\_\_\_

SWIFT OPERATOR \_\_\_\_\_

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X  
 DATE SIGNED \_\_\_\_\_  
 TIME SIGNED \_\_\_\_\_  
 APPROVAL \_\_\_\_\_

SWIFT OPERATOR \_\_\_\_\_

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 SWIFT SERVICES, INC.  
 P.O. BOX 466  
 NESS CITY, KS 67560  
 785-798-2300

APPROVAL \_\_\_\_\_

DATE SIGNED \_\_\_\_\_

TIME SIGNED \_\_\_\_\_

AM \_\_\_\_\_

PM \_\_\_\_\_

SWIFT OPERATOR \_\_\_\_\_

Thank You!





Seaman, Inc.

PO Box 466,  
Ness City, KS 67560  
Off: 785-798-2300

TICKET CONTINUATION

TICKET No. 21444

CUSTOMER Bowman Oil Co.

WELL H-4-BE-A #4

DATE 5-5-12

PAGE 2 OF 2

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	WELL				UNIT PRICE	AMOUNT	
		LOC	ACCT	DF			QTY.	UM	QTY.	UM			
325		2				Standard Cement	150	sk			13.60	2025.00	
330		2				SMD Cement	235	sk			16.50	3877.50	
276		2				Flocc	100	#			2.00	200.00	
283		2				Salt	760	#			2.00	1520.00	
284		2				Cal/soil	7	sk			35.00	245.00	
285		2				CR-1	50	#			4.00	200.00	
581		2				SERVICE CHARGE					2.00	770.00	
583		2				MILEAGE CHARGE					1.00	567.00	
SERVICE CHARGE 785 sks MILEAGE CHARGE 38673 CUBIC FEET 961 TON MILES 3-0 LOADED MILES 3-0													

CONTINUATION TOTAL 43 574 50



JOB LOG

SWIFT Services, Inc.

DATE 5-5-12 PAGE NO. 1

CUSTOMER *Bowman Oil Co* WELL NO. *#4* LEASE *Hrabe 'A'* JOB TYPE *2-stage* TICKET NO. *21444*

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1230							on loc w/ FE.
								RTD 3461'
								5 1/2" x 15.5" x 3452' x 43'
								Cent 1, 2, 5, 7, 11, 41
								Back 3, 42
								DV 42 @ 1712'
	1345							start <del>FE</del> FE
	1540							Break Circ
	1630	5	0			200		start Pref 500 gal Mud flush
	1635	6	32/0			200		20 bbl KCL flush
	1640		36					start 150sks EA-2 Cement
								End Cement
								wash Pth
								Drop LD Plug
	1645	6	0			200		start Displacement w tr
		6	45			200		mud
	1655	5	63			250		catch Cement
	1705		81			700/1500		Land Plug
								Release Pressure / Float Hdd
	1710							Drop Opening Plug
	1725	2.5	7					Plug R.H.
	1725					1100		Open D.V. Tool
	1730							Circ 30 min
	1755	5	0					start KCL flush 20 bbl
	1800	6	20/0					start 235sks SMD
	1820		130					End Cement
								Drop Closing Plug
	1825	5	0					start Displacement
		5						Circ Cement
	1830		41					Land Plug
								Release Pressure
								D.V. Closed
								circ 125sks to Pit
								Thank You
								Nick, Dan, + Russ

*Nick*

Nick, Dan, + Russ



**GEOLOGIC  
REPORT  
LOG**

COMPANY THE BILL BOWMAN OIL COMPANY

NATOMA, KS 67651

WELL HRABE A #4

FIELD ROSE

LOCATION 4553' FSL & 1263' FEL

SEC. 1 TWP. 9S RGE. 17W

COUNTY ROOKS

STATE KANSAS

API 15-163-24021-0000

OPERATOR BILL BOWMAN OIL COMPANY

CONTRACTOR INTEGRITY DRILLING LLC

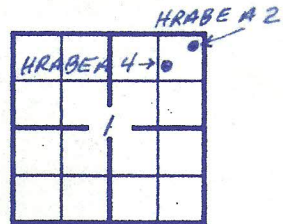
COMM: 04-30-2012 COMP: 05-05-2012

**CASING RECORD**

SURF: 8 5/8" @ 228 PROD: 5 1/2" @ 3466

TOTAL DEPTH DRILLERS: 3468

TOTAL DEPTH LOG 3472



**PRODUCTION**

ELEVATION KB 1925

DF \_\_\_\_\_

GL 1916

Drilling Measured From: KELLY BUSHING

Samples Saved From 2700 To: T.D.

Drilling Time From 2600 To: T.D.

Samples Examined From: 2700 To: T.D.

Geological Supervision From 2600 To Total Depth

Wellsite Geologist ED GLASSMAN

Electrical Surveys DUAL INDUCTION

DENSITY-NEUTRON

MICRO

SONIC

**FORMATION TOPS AND STRUCTURAL POSITION**

FORMATION	SAMPLE TOP	ELECTRIC LOG TOP	SUB-SEA DATUM	STRUCTURAL POSITION
ANHYDRITE	1220 (705)	1222	703	NA
B/ANHYDRITE	1256 (669)	1256	669	NA
TOPEKA	2809 (-884)	2811	-886	-5
HEEBNER	3026 (-1101)	3027	-1102	-7
LANSING	3067 (-1142)	3069	-1144	-6
B/KANSAS CITY	3307 (-1382)	3311	-1386	-6
ARBUCKLE	3384 (-1459)	3375	-1450	+5

REFERENCE WELL FOR STRUCTURE 5 E M OIL CO.

HRABE A #2 SEC 1 - 9S - 17W T0'W NENE NE

ROOK COUNTY KANSAS





# DRILL STEM TESTS

No.	Interval	IFP/Time	ISIP/Time	FFP/Time	FSIP/Time	INH-FIH	RECOVERY

REMARKS AND RECOMMENDATIONS \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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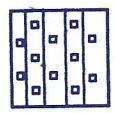
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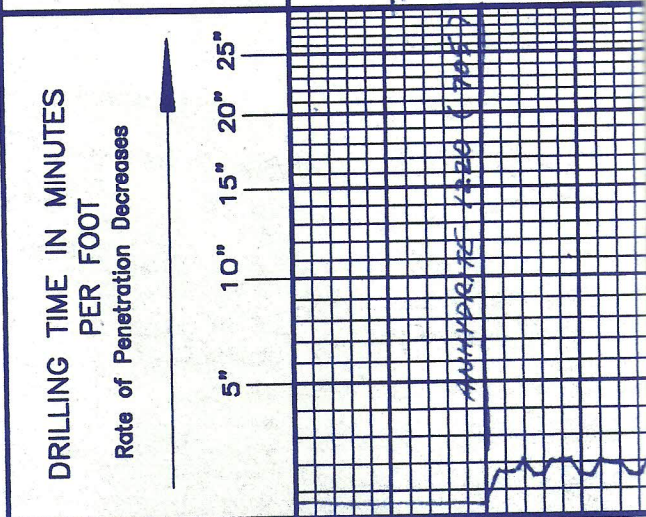
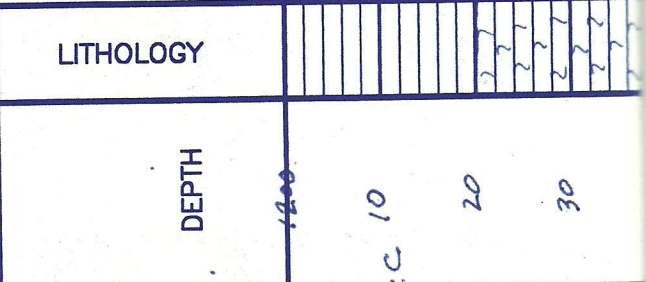
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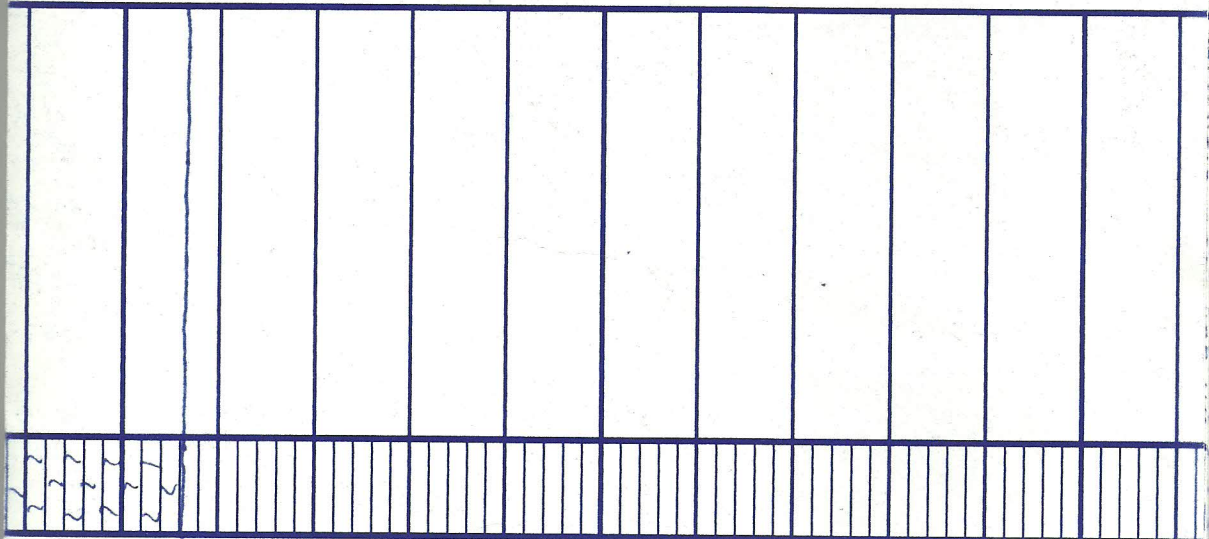
# LEGEND

- 
  
Anhydrite
- 
  
Salt
- 
  
Sandstone
- 
  
Shale
- 
  
Carb sh
- 
  
Limestone
- 
  
Ool. Lime
- 
  
Chert
- 
  
Dolomite

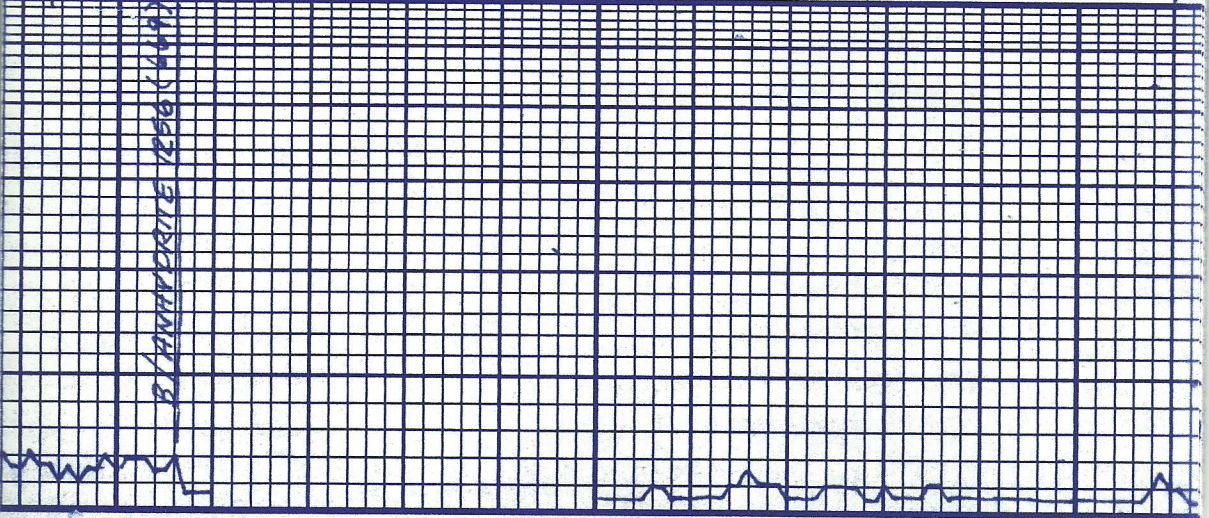
DRILLING TIME IN MINUTES PER FOOT Rate of Penetration Decreases	DEPTH	LITHOLOGY	SAMPLE DESCRIPTIONS	OIL SHOWS	REMARKS
	5"    10"    15"    20"    25" 1200 10 20 30				



START 1' Dr's Time



40  
1250  
60  
70  
2600  
10  
20  
30  
40  
50  
60



B / AMP DRIVE 1250 (400)



- BIT TRIP

- START 10' W.D

SAMPLES

GED. ON LOCATION

10:30 pm 5-2-2012

70

80

90

2700

10

20

30

40

50

60

70

80

LS: tan-lt gry, f-med xln, inter xln  $\phi$ , NS.

SH: gry

LS: lt gry - gry, f-med xln, inter xln  $\phi$ , some Fett xls, NS.

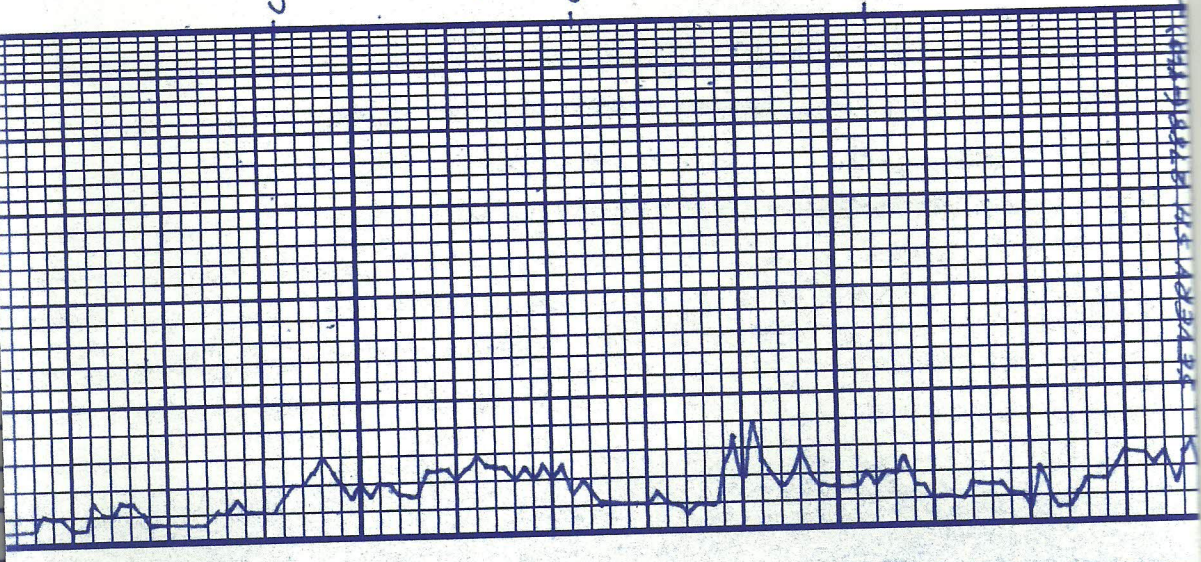
SH: gry, some drk gry, med, blkky

LS: lt gry, f-med xln, inter xln  $\phi$ , NS.

LS: tan-lt gry, f-med xln, ool, some mottbl, inter xln-ool  $\phi$ , NS.

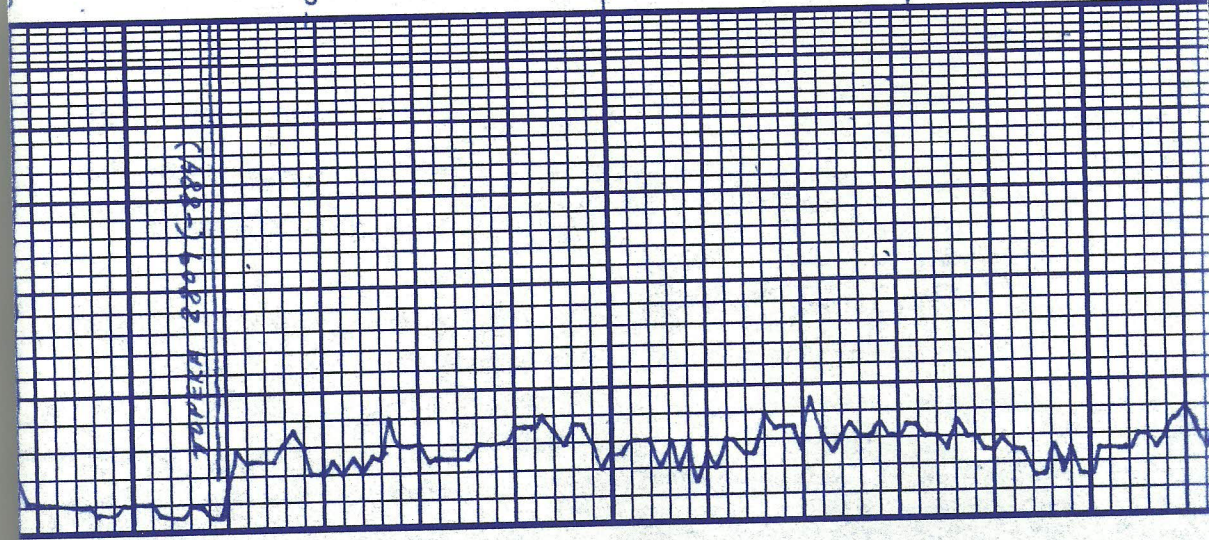
SH: gry, some blkky, some Fett xls, pty-bkky

LS: lt brn - gry, f-med xln, inter xln  $\phi$ , NS.



SEVERY FA STRENGTH





TUPETA 2800 (5884)

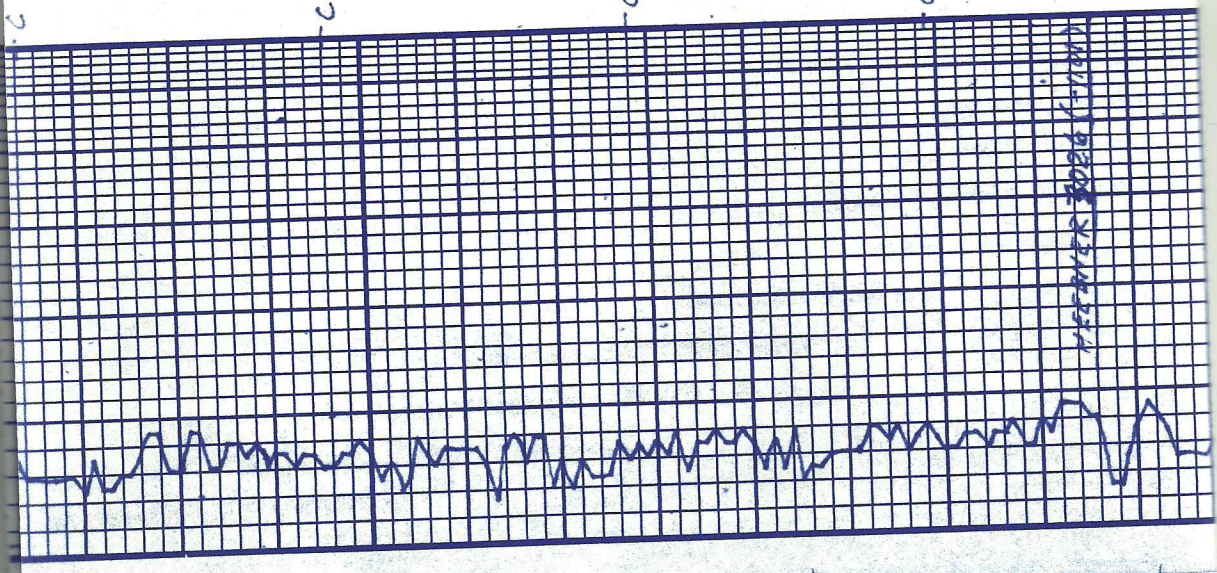
90	SH: gry, med, pthy.
2800	
10	LS: tan-lt gry, f-med xln, inter xln P, NS.
20	LS: SAB
30	LS: tan-lt brn, sl. motid f-med xln, chalky, NS.
40	
50	SH: gry, sme varicled.
60	LS: tan, f-med xln, inter xln P, NS.
70	
80	LS: lt brn - drk brn, motid, obl, inter xln P, NS.
90	LS: SAB
2900	SH: gry, med, pthy-blky
10	SH: blk, carb, pthy-blky

wt 9.2  
vis 58



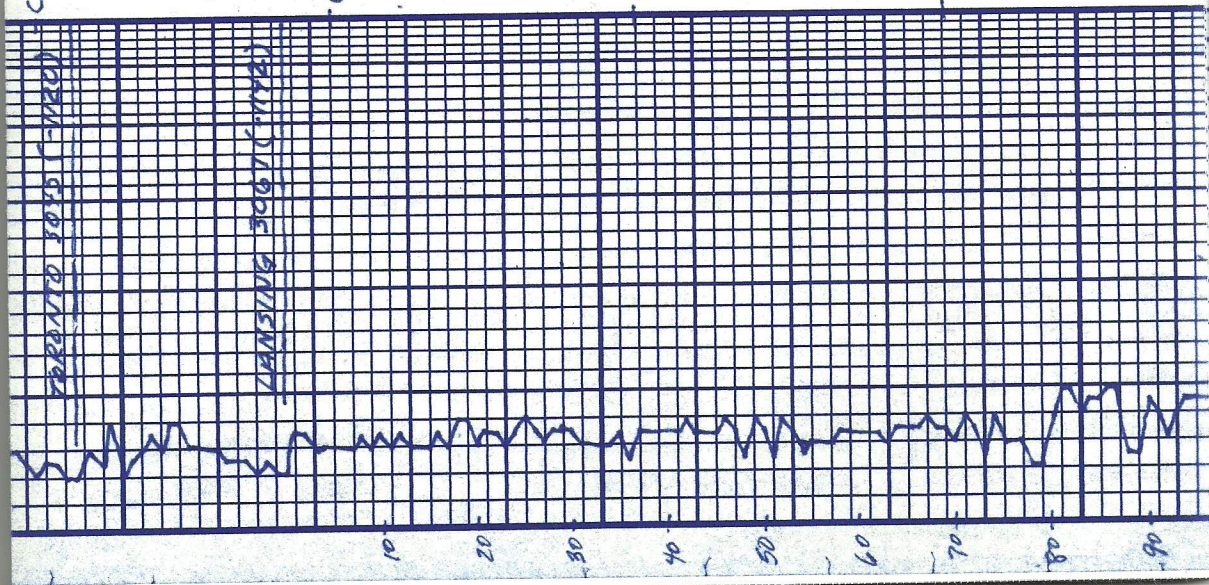
Fil 7.6  
 CL 3000  
 LCM N/A

20	LS: tan-lt brn, f-med xln, inter xln & NS	SH: gry
30		
40		
50	LS: tan-lt gry, f-med xln, inter xln & NS	
60	SH: blk, carb, blk.	
70	SH: gry-drk gry, blk.	
80	LS: tan-lt gry, med xln & NS.	
90	SH: gry-drk gry, f, med p/fy-blk.	
3000	LS: tan-lt gry, f-med xln, inter xln & NS.	
10	SH: gry, med, blk.	
20	LS: tan, f-med xln, inter xln & NS.	
30	SH: blk, carb, p/fy-blk.	
	SH: gry, med, p/fy-blk.	



11/11/11  
 11/11/11  
 11/11/11





40	LS: tan, f-med xln, chky. smc scnd ppp, mtr xln p, F5FO, No odor, 14 scnd stru in pp.
50	LS: wt - lt tan, smc st x ourgrths, chrt y, inter xln-ool p, ool, 55FO, No odor, 14 stru in p.
60	SH: gry, med, pty - blk y.
70	
80	LS: tan, f-med xln, ool, 14 inter xln-ool p, V55FO Vsl: odor, 14 sp4 stru.
90	SH: gry, pty - blk y.
3100	LS: tan, f, xln, Ansip TIGHT, inter xln p, V55FO Vsl: odor, 14 sp4 stru.
10	SH: blk, carh
20	SH: gry, pty, smc Fe t.
30	LS: tan, f-med xln, chky, inter xln p, V55FO, Vsl: odor, 14 sp4 stru.
40	SH: gry, smc varic ind.
50	LS: tan - lt brn, f-med xln,
60	



vuggy, dolomitic, inter  
 xln - com - vuggy, v. s. f. s.  
 Fraker, 14' - 15'

LS: tan, f-med xln, inter  
 xln, N.S.

SH: gray, med, pty-6 lks  
 sme blu grn, Fe +

LS: wt - 14 tan, f xln, cherty,  
 inter xln, N.S.

SH: gray, abundant 14 bla-  
 grn.

LS: tan, f-med xln, g. inter  
 xln, F.S.F., Fraker,  
 14-dark str.

SH: gray med pty.

LS: 14 tan-tan, f-med xln,  
 vuggy, g. inter xln - vuggy  
 Fr-gd show Fe, Fraker,  
 drk even hvy str. 0.01. 14.

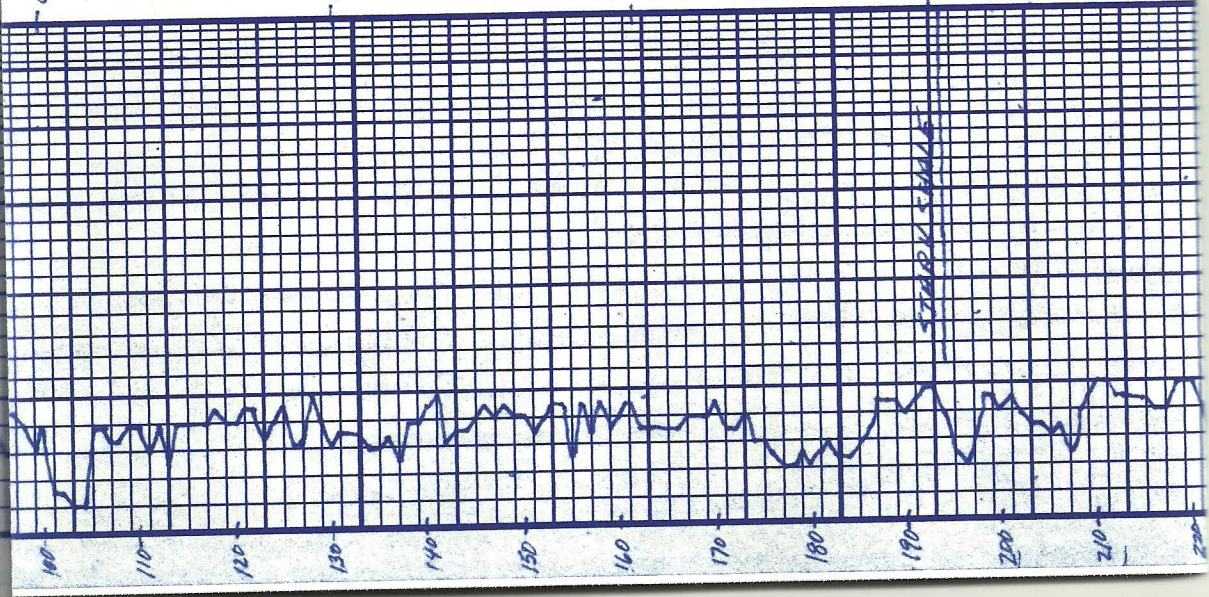
SH:

SH: blk, carb

SH:

LS: tan-14 gray, fine med xln,  
 sme c xln, inter xln, Fr  
 Fr-5 Fe, Fraker, 14-dark  
 spt4 str.

C 70  
 80  
 90  
 C 3200  
 10  
 20  
 C 30  
 40  
 50  
 C 60  
 70  
 80



LOST RETURNS  
 40 bbl

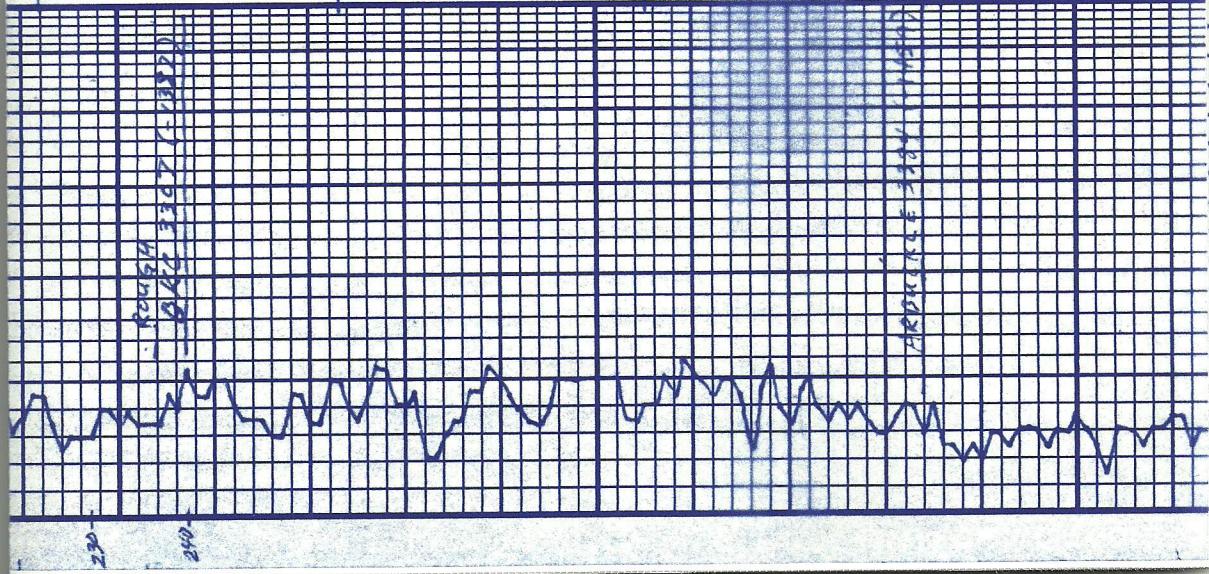
wt. 9.3  
 vis 55



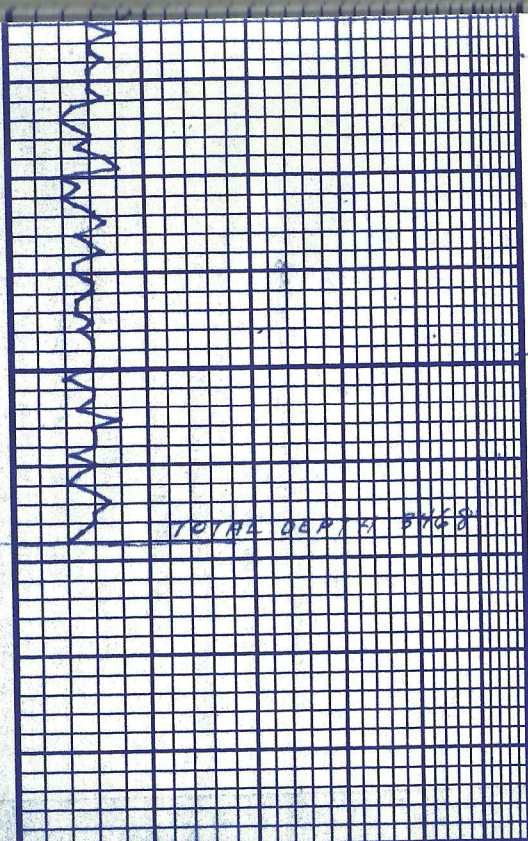
Fil 8.0  
 CL 2500  
 LCM 4 1/2 #

SH: blk, carb	LS: lt tan-tan, f-med xln, some pph, later xln = pph, 55 F9, Fredor, lt sp4 stn.
	SH: mostly grey, varicled.
	LS: tan, f-med xln, inter xln p, NS.
	SH: grey
	LS: tan, f-med xln, cherty inter xln p, NS
	LS: tan-brn, f-med xln, inter xln p, NS
	SH: grey
	LS: tan-lt brn, p, inter xln-ool p, NS
	DOL: wt-lt tan, f-med xln, some C xlns, cherts, later xln p, some xlns in chrt matrix, NS.
	DOL: tan, f-med xln, inter xln p, NS
	DOL: SAR

90  
 3300  
 10  
 20  
 30  
 40  
 50  
 60  
 70  
 80  
 90  
 3400  
 10



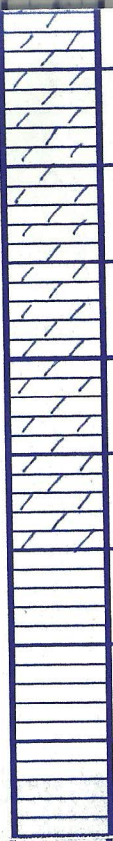




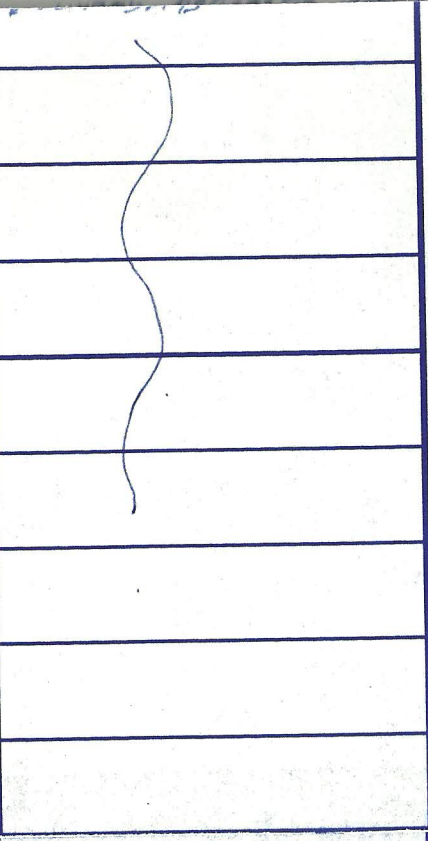
5" 10" 15" 20" 25"  
 DRILLING TIME Minutes/Foot  
 Rate of Penetration Decreases

20  
 30  
 40  
 50  
 60  
 70  
 80  
 90

DEPTH



LITHOLOGY



SAMPLE DESCRIPTIONS

OIL SHOWS

REMARKS

CONTRACTOR INTEGRITY DRILLING LLC  
 LEASE HRABE A #4 IP \_\_\_\_\_

LOCATION 4553' FSL & 1263' FEL  
 SEC 1 TWP 9S RNG 17W

ELEVATION

1925 KB

RTD

3468

COUNTY

Rooks

STATE

KANSAS