

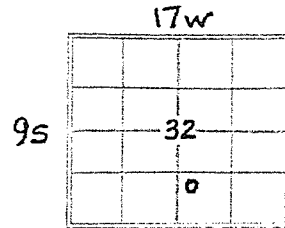
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**GEOLOGIC
REPORT
LOG**

COMPANY **GORE OIL Co.**
WELL **GANOUNG 'B' #3**
FIELD _____
LOCATION **950' FSL, 2310' FWL**
SEC **32** T12SP **9s** R9E **17w**
COUNTY **ROOKS**
STATE **KANSAS**

MUD SUPPLY **ANDY'S MUD**
CONTRACTOR **MAVERICK DRLG Co. RIG #108**
COMPLETED **24 Oct 2013** COMPLETION _____

CASING RECORD:
SIZE **8 5/8 @ 264'** PROVISIONS _____
TOTAL DEPTH FMS **3600'**
TOTAL DEPTH LOG **3599'**



PRODUCTION: _____
ELEVATION: _____
AS **2102**
RF _____
RL **2094**

PLUGS NOTED FROM _____
SAMPLES SPED FROM **2900'** TO **TD**
BELLING LOG KEPT FROM **2900'** TO **TD**
SAMPLES SHIPPED FROM **2900'** TO **TD**
MUD LOG SUPERVISOR FROM **2873'** TO MUD DEPTH
MUD LOG TESTS **TRILOBITE TESTING Co.**
ELECTRICAL SERVICES **PIONEER LOGGING
DUAL INDUCTION
Microlog
CN-CD/SONIC**

FORMATION TOPS & STRUCTURAL POSITIONS

FORMATION	SAMPLE TOP	ELECTRIC LOG TOP	SUB-SEA DATUM	STRUCTURAL POSITION
ANHYDRITE - Top	1370	1372	+730	-6
- BASE	1409	1408	+694	-2
TOPEKA	3015	3012	-910	0
HEEBNER SH.	3230	3228	-1126	+2
TORONTO	3245	3243	-1141	+1
LANSING	3268	3266	-1164	+2
BKC	3500	3501	-1399	-1
MARMATON	3516	3518	-1416	+2
CONGLOMERATE	3564	3562	-1460	+12
ARBUCKLE	3584	3578	-1476	NA
TOTAL DEPTH	3600	3599	-1497	

REFERENCE WELL FOR STRUCTURE **GORE OIL Co. GANOUNG 'B' #2**
850' FSL, 1650' FWL Sec 3-9s-17w Rooks Cty, KS

DRILL STEM TESTS

No.	Interval	FP/Tips	EP/Tips	FP/Tips	FSP/Tips	USI-RTI	REMARKS
1	3226-3310	51[#]-70[#] 45"	855[#] 60"	71[#]-84[#] 45"	841[#] 60"	1562[#] 1495[#]	75' WCM
2	3312-3336	36[#]-34[#] 30"	711[#] 60"	40[#]-39[#] 30"	625[#] 60"	1595[#] 1548[#]	5' MUD
3	3338-3396	43[#] 146[#] 45"	551[#] 60"	147[#] 214[#] 45"	544[#] 60"	1617[#] 1595[#]	285' GIP 95' CGO, 125' GOCM 190' MW
4	2391-3500	43[#]-59[#] 45"	396[#] 60"	73[#]-56[#] 45"	363[#] 60"	1704[#] 1612[#]	40' MUD w/ SCUM OF OIL (PLUGGING FFP)

BIT RECORD

NO	SIZE	MAKE	TYPE	DEPTH OUT	FEET	HOURS
1	12 1/4			265'	265'	
2	7 7/8	JZ	ENP0123	3600'	3335'	86 1/4

PIPE STRAPS & DEV. SURVEYS

DAILY PENETRATION		MUD RECORD											
DATE	DEPTH	MUD TYPE			FOUR SECS				SPGR				
		NO	ONE	DEPTH	AGILITY	W	VS	EL	LD	FI	CS	LSA	CSL
10-24	MIRT												
10-25	265'												
10-26	1380'												
10-27	2305'												
10-28	3080'												
10-29	3310'												
10-30	3396'												
10-31	3500'												

LEGEND

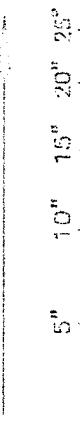


LEGEND

Anhydrite Salt Sandstone Shale Carb sh Limestone Coll.Lime Chert Dolomite

DRILLING TIME IN MINUTES PER FOOT

Rate of Penetration (Revolutions Per Foot)



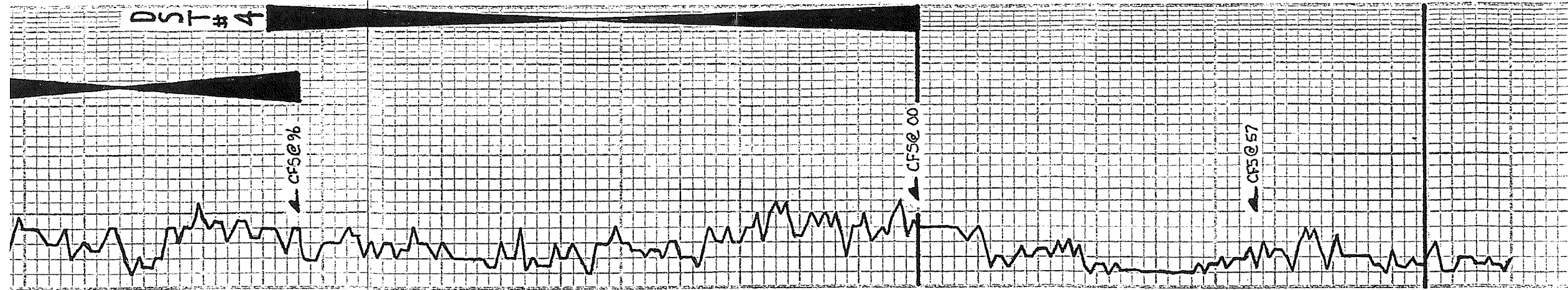
LITHOLOGY

OIL SHOWS

REMARKS

2900	10	20	30	40	2950	60	70	80	90	3000	10	20	30	40	3050	60	70	80	90	3100	10	20	
<p>ls: grey, brown, mottled, fn-med xthn, sli, fass, dense, w/shade grey, sli, mica.</p> <p>ls: off wh, tan, grey, fn; med xthn, sli, fass, sli. calcitic, no vis φ, no show</p> <p>ls: off wh, tan, brown, v. fn, med xthn, sli, fass, grey, fn, med xthn, mottled, no vis φ, no show. Shale: grey, grey-green, silty in part. shale: grey, grey, green, some calc, few pcs silty</p> <p>ls: tan, brown, grey, fn, med xthn, mottled in part, v. sli, fass, no vis φ, no show</p> <p>sh: lt. grey, grey, grey-green, sli, silty mica, ss: v. fr. grained, lt. grey, sli. calc, shaly in part, fr. in grained φ, no show; ls: brown, tan, fn, med xthn, sh: lt. grey, grey, micaceous, silty, fr. ss: lt. grey, v. fr. grained, sli, calc, shaly in part, fr. in grained φ, no show; calc, stain of part</p> <p>sh: lt. grey, grey, silty → ss: as above, no show</p> <p>ls: tan, brown, fn, med xthn, sli, fass, no vis φ, no show. ls: grey, fn, med xthn, mottled, no vis φ, no show</p> <p>ls: as above, with shale, grey, lt. grey mica, silty, few pcs lt. grey, v. fr. grained ss, mica, shaly in part, friable, no vis φ, no show</p> <p>sh: lt. grey, grey, silty, mica.</p> <p>ls: tan, brown, fn, med xthn, sli, fass, grey, v. fn, med xthn, no vis φ, no show</p> <p>ls: tan, brown, grey - brown, v. fn, some med xthn, fass (fusulinids), no vis φ, no show</p> <p>ls: as above, v. fn, fn xthn, fass, no vis φ, no show</p> <p>ls: tan, brown, brown, grey, v. fn, med xthn, sli, fass, no vis φ, no show</p> <p>sh: dk. grey, black</p> <p>ls: brown, grey, fn, med xthn, some mottled, no vis φ, no show</p> <p>ls: tan, lt. brown, fn, med xthn, sli, fass, ss, calc included calcite, ss, pr. mineral φ & fr. pr. vuggy φ, no stain, floor cut or odor</p> <p>ls: tan, brown, grey, fn, med xthn, fass, mottled, no vis φ, n.s.</p> <p>ls: brown, grey, fn, med xthn, fass, no vis φ, n.s. ls: grey, mica v. friable, dense</p> <p>ls: tan, brown, grey, fn, med xthn, fass, calc, pos dolomitic, fr. pr. inter xthn φ, no show</p> <p>ls: as above, becoming soft, sli. shaly, few pcs dolomitic, as above, no show w/ shale: lt. dk. grey</p> <p>ls: tan, lt. brown, fn, med xthn, sli, fass, sli, calc, ss, ss, calc, cement, no show</p>																							

TOPEKA
3015 (-913)



3350		brown ls: tan, lt grey, v. fr. fr. med. xtn, trace less no vis p, no show
60		ls: off wh, wh, fr. med. xtn, scarf fr. pr. fr. med. xtn, v. fr. fr. med. xtn, trace less ls: off wh, wh, fr. med. xtn, scarf fr. pr. fr. med. xtn, v. fr. fr. med. xtn, trace less
70		ls: off wh, wh, fr. med. xtn, scarf fr. pr. fr. med. xtn, v. fr. fr. med. xtn, trace less
80		ls: off wh, wh, fr. med. xtn, scarf fr. pr. fr. med. xtn, v. fr. fr. med. xtn, trace less
90		ls: off wh, wh, fr. med. xtn, scarf fr. pr. fr. med. xtn, v. fr. fr. med. xtn, trace less
3400		ls: off wh, wh, fr. med. xtn, scarf fr. pr. fr. med. xtn, v. fr. fr. med. xtn, trace less
10		ls: white, off wh, tan, v. fr. scat med xtn, sil. less, fr. oil, t few scat p's w/ pr vuggy of scat spotty pr stain, wk cut, no show FO, no odor
20		shale: grey, lt. grey, some brown, w/ tan, fr. xtn, ls, some w/ shale odor
30		ls: wh, tan, fr. med. xtn, trace oil, pr. fr. med. xtn, v. fr. fr. med. xtn, trace less gas bubble on break, spotty lt. sil, 2 p's w/ fr. stain, faint odor, pr. cut
40		ls: off, wh, tan, fr. xtn, no vis p w/ shale: grey, dk grey
3450		ls: wh, tan, fr. med. xtn, oil, v. fr. part scat pr oil, pr. trace fr. med. xtn p, few gas bubbles w/ ring of FO on break, scat spotty fr. stain, several p's w/ gas stain & scat, fr. odor, pr. cut
60		ls: tan, lt brown, fr. v. fr. xtn, no vis p, no show, some w/ pyrite, sh. grey grey-green
70		ls: tan, off, wh, fr. med. xtn, sil. less scat pr interesting vuggy p, v. fr. oil good, scat, fr. faint odor
80		ls: off wh, tan, v. fr. fr. med. xtn, few p's chalky in part, no vis p, no show shale: grey, dk. grey, brown
90		ls: tan, v. fr. fr. med. xtn, few p's w/ trace v. fr. vuggy of trace pr stain, no show FO, no odor w/ ls: grey, v. fr. xtn, dense
3500		shale: grey, green, some brown, silty calc in part; w/ ls: tan, lt. grey, v. fr. xtn, some showing size contact
10		shale: grey, dk grey, green, brown, some calc, ls: off wh, tan, fr. xtn w/ shale inclusion, s
20		shale: as above, silty in part, oil clusters silty stone, v. fr. green, silty w/ shale matrix, no p, N.S. ls: off wh, tan, fr. xtn, dense, oil p's, v. fr. xtn, tan, fresh opaque, N.S.
30		Δ v. fr. colored (wh. tan, yellow, pink) fresh, most opaque, N.S. ls: tan, fr. med. xtn, some w/ shale contact, dense sh. as above
40		Δ mostly wh, yellow, few p's tan, pink, fresh, opaque, few p's silty weathered on edges, N.S. ls: wh, tan
3550		Δ fr. med. xtn, few p's sandy, no vis p no show, w/ shale, grey, grey-green, some brown, red.
60		Δ sh: mostly brown, some grey, green, few p's Δ as above: oil p's wh, silty weather w/ fr. dk oil stain, no show FO few p's dol: v. fr. xtn, lt. grey, hard, no vis p no show
70		Δ shale: mostly brown, green, some grey, few p's Δ as above, 2 p's w/ dk edge stain as above, N.S. imp. in dol: lt. grey v. fr. fr. xtn, no vis p, no show
80		Δ p's green dol: shale matrix dol: tan, lt. grey, v. fr. fr. xtn, some w/ green, sh. matrix, no vis p, N.S.
90		Δ dol: lt. grey, tan, v. fr. xtn, very scat pr isolated frags, 1 pc w/ fr. hvy dkst. no show FO, no odor. shale bright tan few p's brown, v. fr. xtn in part, lt. grey ool. dol, dense, no vis p, N.S. few p's pink dol.
3600		

(3312-3336)
30"-60"-30"-60"
LFP: WK SURF BLOW
FFP: NO BLOW
RECOVERY:
5' MUD
HSP: 1595 - 1548#
FP: 36-34 / 40-39#
SIP: 711 - 625#
BHT: 98° F

DST # 3
(3338-3396)
45"-60"-45"-60"
LFP: WK BLOW TO BOB-10"
LSIP: WK BLOW TO 3 1/2"
FFP: WK BLOW TO BOB-10"
FFSIP: WK BLOW TO 1"
RECOVERY:
285' GIP
95' LGO (15% G, 85% O)
125' GFCM
(10% G, 10% O, 80% M)
190' MW
(10% M, 90% W)
CHL: 65,000 PPM
MUD: 3,500 PPM
HSP: 1617 - 1590#
FP: 43-46 / INT-214#
SIP: 551 - 544#
BHT: 105° F

BKC
3500 (-1398)

DST # 4
(3391-3500)
45"-60"-45"-60"
LFP: WK BLOW TO 1"
FFP: NO BLOW
PLUGGING DURING FFP
RECOVERY:
40' MUD w/ SCUM OIL
HSP: 1704 - 1612-
FP: 47-59 / 73-56
SIP: 396 - 363
BHT: 99° F

ARBUCKLE
3585 (-1483)

REMARKS

SAMPLE DESCRIPTIONS

DEPTH

