

P&A Surface Casing Check

Date	3/18/2021			
Operator	Investment Equipment			
Well Name	COLORADO STATE "A" #1		API	121-05286
Location	NWSW 36 3S53W 6	39.745883 / -103.271794	2040FSL 600 FWL	
Elevations: GL, TD-MD/TVD, PBTD-MD/TVD (ft)	4935	4719	4675	
Permit Formation	JSND			
Operator-Existing Surface Casing Depth (ft)	125			
Fox Hills Protection Area 5% Rule (ft)	4719	times .05 + 50	0.05	285.95
Production within	1	mile(s),	J	
Deepest Water Well w/in 1 mile, WW GL (ft)	126		Number of Wells	5
Deepest Water Well w/in 2 miles, WW GL (ft)	155		Number of Wells	15
Deepest Water Well w/in 3 miles, WW GL (ft)			Number of Wells	
Deepest Water Well to consider, WW GL (ft)	155	4935		
Deepest Water Depth corrected for elevation, WW depth + (Local GL - WW GL) + 50' (ft)	155	0	50	205
Base of Fox Hills - SB5 (ft)	NA			
Base of Fox Hills - Cheyenne Basin (ft)	NA			
Base of Fox Hills - Log , GL (ft)	NA	NA	API	NA
Base of Fox Hills - Offset Log corrected for elevation, FH depth + (Local GL - Log GL) + 50'	NA	#VALUE!	50	#VALUE!
Upper Pierre base - Log, GL (ft)	980	4935	API	121-10849
Base of Upper Pierre - Offset Log corrected for elevation, UP depth + (Local GL - Log GL) + 50'	980	0	50	1030
Operator Proposed/Existing Surface Casing Depth (ft)	125			125
Minimum Surface Casing Depth (ft)	205			205
Increase Permit Surface Casing Depth	from		to	
Provide Remedial Cement	squeeze	1200	40 sks	
	shoe	205-0	70 sks	

Oil and Gas Wells within Map Selection

API County	API Sequence	Location ID	Status	Well	Operator	Qtr Qtr	Section	Township	Range	Meridian	Lat	Long	Formation Information		Top	Bottom	TD	Formation Status
													Sidetrack	Formation				
JSND	121	5233	316919 PA	WHITAKER *	VISUAL OPTIC SENE		2	4S	53W	6	39.73497	-103.27644	0	JSND		4472	4480	4563 AB
	121	5234	316920 PA	WHITAKER *	DIAMOND OI SWNE		2	4S	53W	6	39.734749	-103.28094	0	JSND		4500	4504	4575 AB
	121	5242	316921 PR	WHITAKER *	IMPETRO RES NENE		2	4S	53W	6	39.738439	-103.27626	0	JSND		4497	4503	4580 PR
	121	5244	399915 PA	WHITAKER *	ALLISON DRILL NWNE		2	4S	53W	6	39.73834	-103.28093	0	JSND		4478	4482	4560 AB
		5245	399916 DA	GILBERT O'NI	BANDER & C NENW		2	4S	53W	6	39.738269	-103.28578						
	121	5262	399930 PA	ALLISON-GAY	ALLISON EST/ SWSE		35	3S	53W	6	39.741979	-103.28095	0	JSND		4476	4479	4563 AB
	121	5266	399933 DA	STATE A *2	UNION TEXA/ SWSW		36	3S	53W	6	39.742129	-103.27178						
	121	5267	399934 PA	DAN GAY *1-	ALLISON DRILL SESE		35	3S	53W	6	39.742079	-103.27627	0	JSND		4492	4502	4547 AB
	121	5282	399946 PA	DAN GAY B *	ALLISON DRILL NESE		35	3S	53W	6	39.745689	-103.27629	0	JSND		4504	4512	4595 AB
	121	5284	399948 DA	STATE *1	NEW DRILLIN NESE		36	3S	53W	6	39.74593	-103.25759						
	121	5286	316927 SI	COLORADO S	INVESTMENT NWSW		36	3S	53W	6	39.745883	-103.27179	0	JSND		4492	4498	4719 SI
	121	5302	399960 PA	COLORADO S	KESTREL RES/ SWNW		36	3S	53W	6	39.749429	-103.27163	0	JSND		4474	4479	4525 AB
	121	5303	399961 DA	STATE *1	INLAND DRILL SENW		36	3S	53W	6	39.749519	-103.26693						
	121	5304	399962 PA	GILMAN *1	VESSELS* TO SENE		35	3S	53W	6	39.749369	-103.27632	0	JSND		4509	4516	4553 AB
	121	5319	399974 DA	COLORADO S	VESSELS* TO NENW		36	3S	53W	6	39.753149	-103.26696						
	121	5320	316934 SI	COLORADO S	INVESTMENT NWNW		36	3S	53W	6	39.753083	-103.27159	0	JSND		4475	4491	4515 SI
	121	5321	399975 DA	GILMAN *1	RYAN OIL CO NENE		35	3S	53W	6	39.752979	-103.27636						
	121	5335	399986 DA	WALTER GAY	MIDWEST OI/ SESEW		25	3S	53W	6	39.756769	-103.267						
	121	5337	399988 PA	GAY *1	MIDWEST OI/ SESEW		25	3S	53W	6	39.756679	-103.27169	0	JSND		4490	4497	4568 AB
	121	5338	399989 DA	DAN GAY *1	MIDWEST OI/ SESE		26	3S	53W	6	39.756619	-103.27582						
	121	8707	402769 DA	WINGFIELD *	EXETER DRILL SWSW		25	3S	53W	6	39.756529	-103.27098						
	121	9118	403148 DA	BRANDT *1	SAMEDAN OI/ NWSW		25	3S	53W	6	39.760299	-103.27174						
	121	9357	403363 PA	WITHAM *1	VISUAL OPTIC NWNE		1	4S	53W	6	39.73863	-103.26224	0	JSND		4454	4460	4503 AB
	121	9386	403387 PA	WITHAM *2	VISUAL OPTIC SWNE		1	4S	53W	6	39.735	-103.26218	0	JSND		4452	4458	4551 AB
	121	9390	403391 DA	STATE GULF	RINCON OPEI SWSE		36	3S	53W	6	39.74136	-103.26109						
	121	9436	403435 DA	WRIGHT *1	RINCON OPEI SENW		1	4S	53W	6	39.73405	-103.26565						
	121	9650	403610 PA	WITHAM *3	DIAMOND OI NENE		1	4S	53W	6	39.73875	-103.25739	0	JSND		4446	4452	4470 AB
	121	10472	404317 DA	WRIGHT *1-1	GEAR DRILLIN NWNW		1	4S	53W	6	39.73851	-103.27154						
	121	10613	404426 DA	JAREHO *1	WARD & SON SWNW		36	3S	53W	6	39.747629	-103.27332						
	121	10844	404589 PA	BLADE STATE	EAGLE OPER/ SWNW		36	3S	53W	6	39.749675	-103.27169	0	JSND		4474	4485	4994 AB

Water Wells within Map Selection									
Receipt	Permit	Water Well	Quarter	Section	Township	Range	Depth	Top Perf	Bottom Perf
	3694429	315887- ANTON COOPERATIVE ASSOCIATION	SESE	35	3.0 S	53.0 W			
	3692796	314491- ANTON COOPERATIVE ASSOCIATION	SESE	35	3.0 S	53.0 W	100		
	36864	36864-M MCCracken, GREGA	SESE	35	3.0 S	53.0 W			
	36863	36863-M MCCracken, GREGA	SESW	35	3.0 S	53.0 W			
C610217	JSND	CO STATE OF	NWNE	36	3.0 S	53.0 W	126		

126 0 0 ft
5 wells 1 mile

Aquifer
OGALLALA
ALL UNNAMED AQUIFERS
ALL UNNAMED AQUIFERS
ALL UNNAMED AQUIFERS
ALL UNNAMED AQUIFERS

Water Wells within Map Selection										156	135	155 ft
Receipt	Permit	Water Well	Quarter	Section	Township	Range	Depth	Top Perf	Bottom Perf	Aquifer	19 wells	2 mile
	9057785 82170-	SWANDA, CECIL	NESE	31	3.0 S	52.0 W	80			ALL UNNAMED AQUIFERS		
	9057783 82158-	SWANDA, CECIL	NESW	31	3.0 S	52.0 W	54			ALL UNNAMED AQUIFERS		
C610135	135-WCB	BARPHNECHT, CHARLES	SESE	31	3.0 S	52.0 W	104			ALL UNNAMED AQUIFERS		
C610161	161-WCB	ANTON SCHOOL DIST	SWSW	31	3.0 S	52.0 W	75			ALL UNNAMED AQUIFERS		
0442070A	JSND	MCCRACKEN, APRIL	SESE	23	3.0 S	53.0 W	130			OGALLALA		
0260215B	215985--A	LAMBERT, STEPHANIE A.	SESE	23	3.0 S	53.0 W	155	135	155	OGALLALA		
0260215A	141953--A	SCHULTZ, L	SWSW	24	3.0 S	53.0 W	156			ALL UNNAMED AQUIFERS		
	141953-	SCHULTZ, LENDELL	SWSW	24	3.0 S	53.0 W	155			ALL UNNAMED AQUIFERS		
	9056495 8880-	BARFKNECT, CHARLES	NESE	25	3.0 S	53.0 W	59			ALL UNNAMED AQUIFERS		
	9056560 10654-	BARFKNECHT, CHARLES	NESW	25	3.0 S	53.0 W	105			ALL UNNAMED AQUIFERS		
C610088	88-WCB	BARFKNECT, CHARLIE	NESW	25	3.0 S	53.0 W	0			ALL UNNAMED AQUIFERS		
	3694429 315887-	ANTON COOPERATIVE ASSOCIATION	SESE	35	3.0 S	53.0 W				OGALLALA		
	36864 36864-MH	MCCRACKEN, GREGA	SESE	35	3.0 S	53.0 W				ALL UNNAMED AQUIFERS		
	3692796 314491-	ANTON COOPERATIVE ASSOCIATION	SESE	35	3.0 S	53.0 W	100			ALL UNNAMED AQUIFERS		
	36863 36863-MH	MCCRACKEN, GREGA	SESW	35	3.0 S	53.0 W				ALL UNNAMED AQUIFERS		
C610217	217-WCB	CO STATE OF	NWNE	36	3.0 S	53.0 W	126			ALL UNNAMED AQUIFERS		
	900319 12852-	SHERMAN, HERB	NENE	10	4.0 S	53.0 W				ALL UNNAMED AQUIFERS		
	77861 88447-	OBRIEN LAND & LIVESTOCK COMPANY L	SWSE	2	4.0 S	53.0 W	90	70	90	ALL UNNAMED AQUIFERS		
	9056561 10655-	SHERMAN, H B	NWSE	3	4.0 S	53.0 W	104			ALL UNNAMED AQUIFERS		

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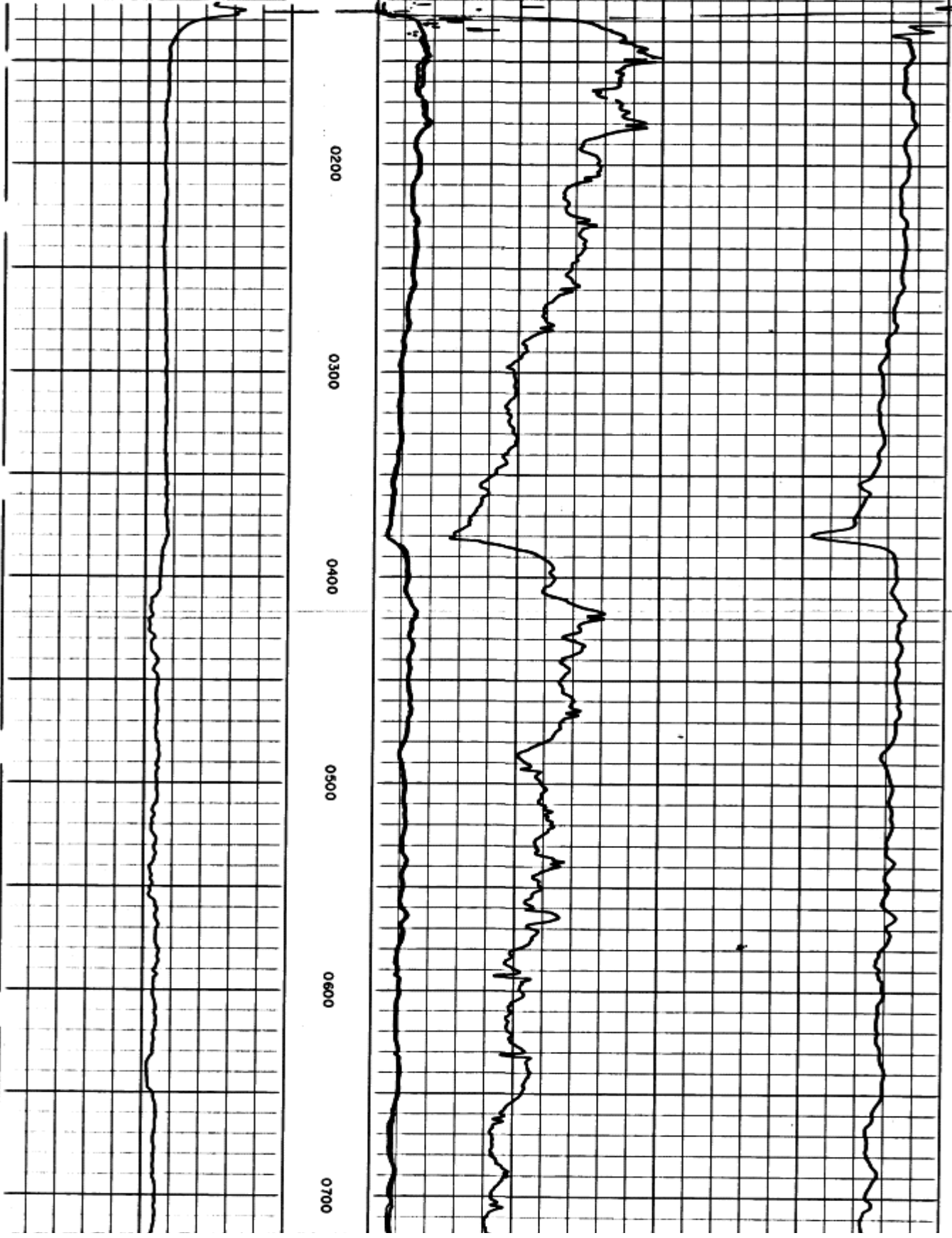
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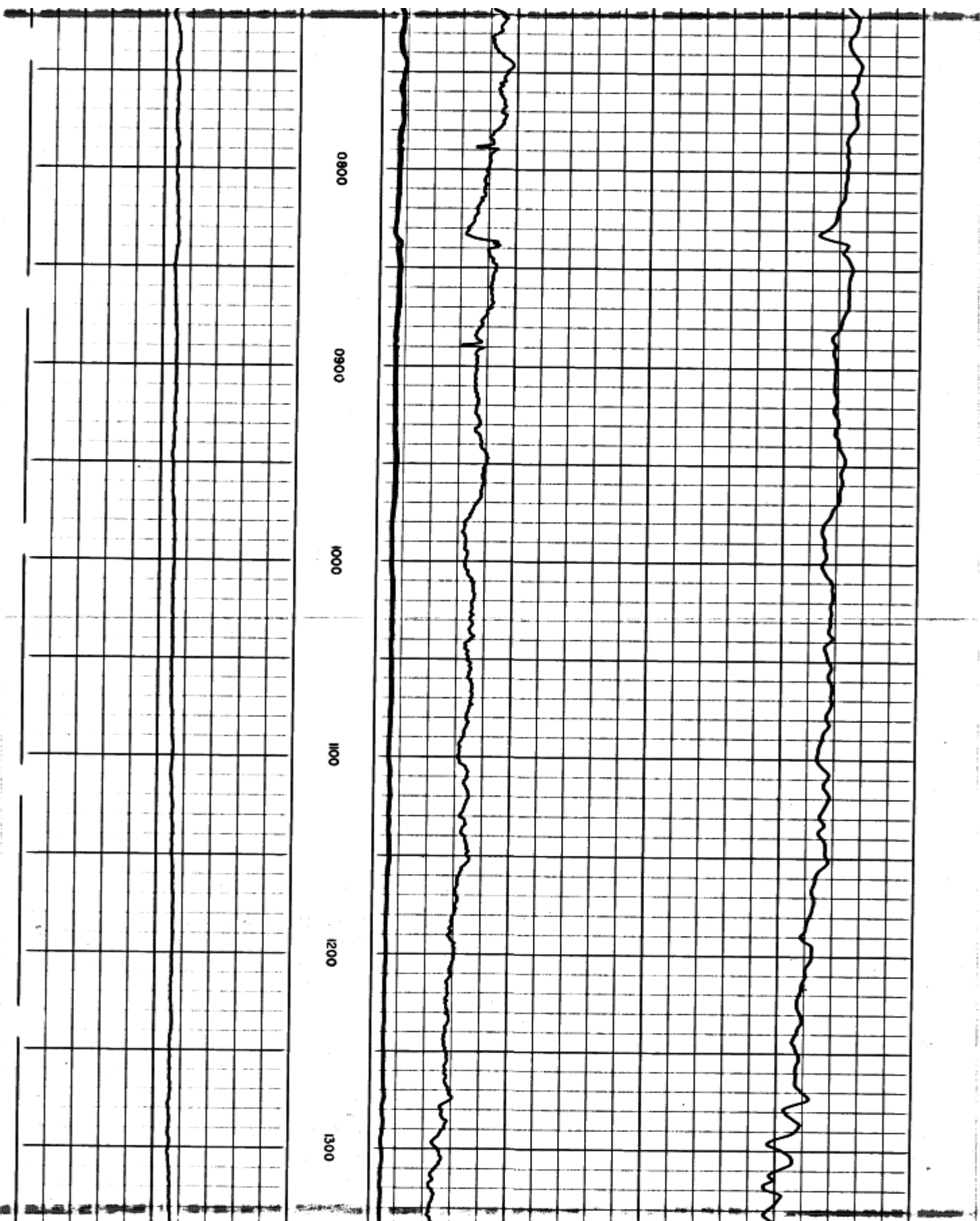
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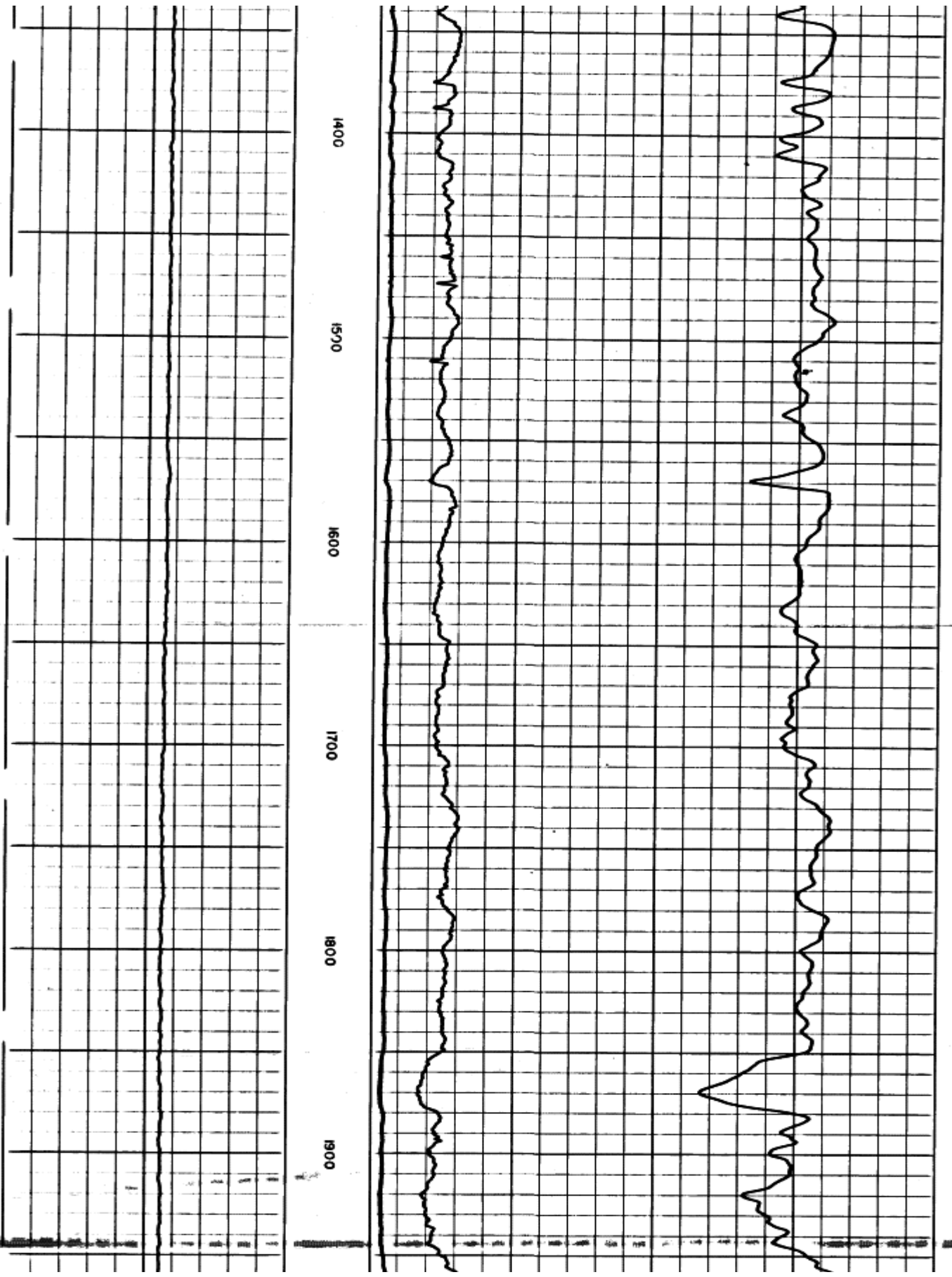
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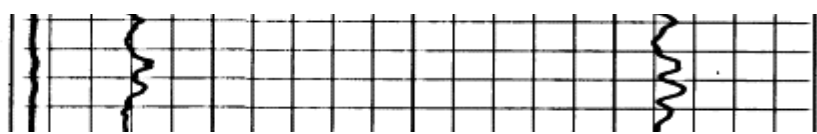
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