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W. D. A. CORPORATION

WELL COMPLETION REPORT

WELL NAME: #1 Grynberg-Federal AREA: Gold Blossom Creek
 LOCATION: 2022' FNL & 618' FEL of Section 1, 11N-88W, Routt County, Colorado
 ELEVATION: 7471' GL., 7483' KB. (Depth Datum)
 COMMENCED DRILLING: September 14, 1971 COMPLETED DRILLING: September 22, 1971
 CASING: 9 5/8" at 400' with 175 sacks
 TOTAL DEPTH: 4,090' FORMATION: Mancos shale

PLUGGED INTERVALS AND FORMATIONS:

3,800'-3,900', 35 sacks
 2,950'-3,060', 35 sacks
 1,650'-1,835', 60 sacks
 850'- 950', 35 sacks
 5 sacks at surface with marker
 Rudy Bear, U.S.G.S., Denver, Colorado

GEOLOGICAL INTERPRETATION:

System	Formation	Porous	Depth	Datum	Fluid	How
	Member	Bed		Of Top	Content	Determined
Cretaceous			0-4090'	+7483'		Logs & Samples
	Lewis sh		0- 831'	+7483'		Logs & Samples
	Mesaverde		831-4039'	+6652'		Logs & Samples
		Sand	831- 902'	+6652'	Water	Logs & Samples
		Sand	910- 954'	+6573'	Water	Logs & Samples
		Sand	963-1030'	+6520'	Water	Logs & Samples
		Sand	1086-1304'	+6397'	Water	Logs & Samples
		Sand	1360-1485'	+6123'	Water	Logs & Samples
		Sand	1520-1675'	+5963'	Tight	Logs & Samples
	Trout Creek	Sand	1694-1786'	+5789'	Water	Logs & Samples
	Iles		1834-	+5649'		Logs & Samples
		Sand	1834-1909'	+5649'	Water	Logs & Samples
		Sand	2902-2944'	+4581'	Water	Logs & Samples
	Buck sh		2944-3016'	+4539'		Logs & Samples
	Loyd	Sand	3016-3194'	+4467'	Water	Logs & Samples
	Hatfield	Sand	3324-3460'	+4150'	Water	Logs & Samples
		Sand	3560-3664'	+3923'	Water	Logs & Samples
	Espy	Sand	3748-3764'	+3735'	Water	Logs & Samples
	Deep Creek	Sand	3859-4039'	+3624'	Tight	Logs & Samples
	Mancos sh		4039-4090'	+3444'		Logs & Samples

CORES AND TESTS: None

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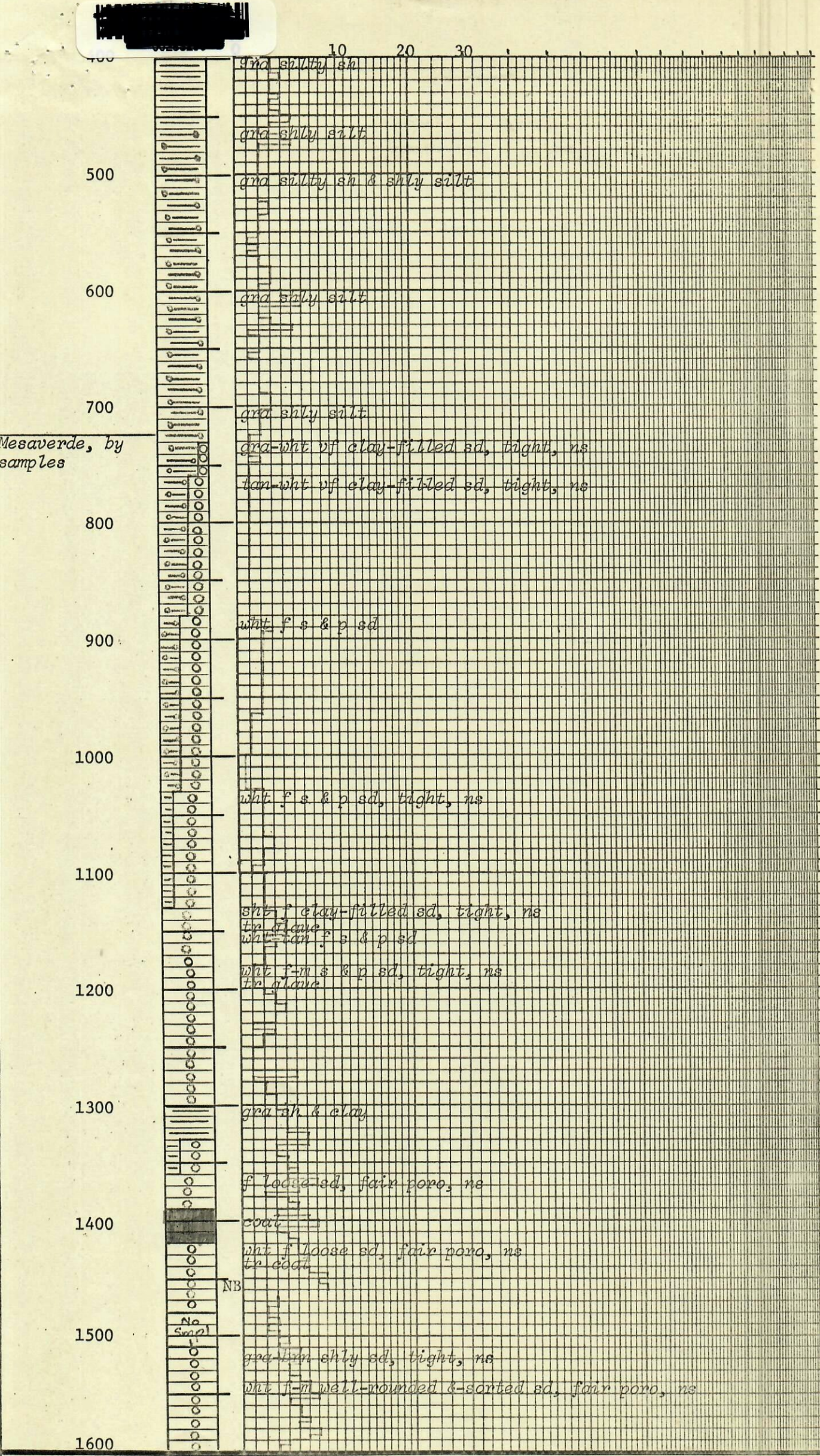
LOG ANALYSIS BY WELEX:

DEPTH	ϕ	SW	
843- 849'	Tight	100%	Rw .8
849- 870'	15 Avg.	80% Avg.	
1696-1722'	19% Avg.	75	Rw 3.2
1722-1724'	21 Avg.	75	
1724-1732'	21 Avg.	80	
1732-1740'	21 Avg.	85	
1740-1750'	21 Avg.	99	
3022-3024'	10	100	Rw .70
3024-3030'	Tight	100	
3030-3034'	11	88	
3034-3038'	13	81	
3038-3042'	11	73	
3042-3047'	13	78	
3047-3050'	11	82	
3266-3271'	10.5	65	Rw .35
3271-3274'	11	70	
3274-3278'	8	100	
3418-3422'	14 1/2 Avg.	84	Rw .70
3422-3430'	16	81	
3430-3433'	15	86	
3433-3441'	14 1/2	90	
3441-3450'	15 1/2	88	
3861-3865'	13.5	41	Rw .13
3865-3869'	10	61	
3869-3878'	5	100	
3878-3886'	9 Avg.	75	

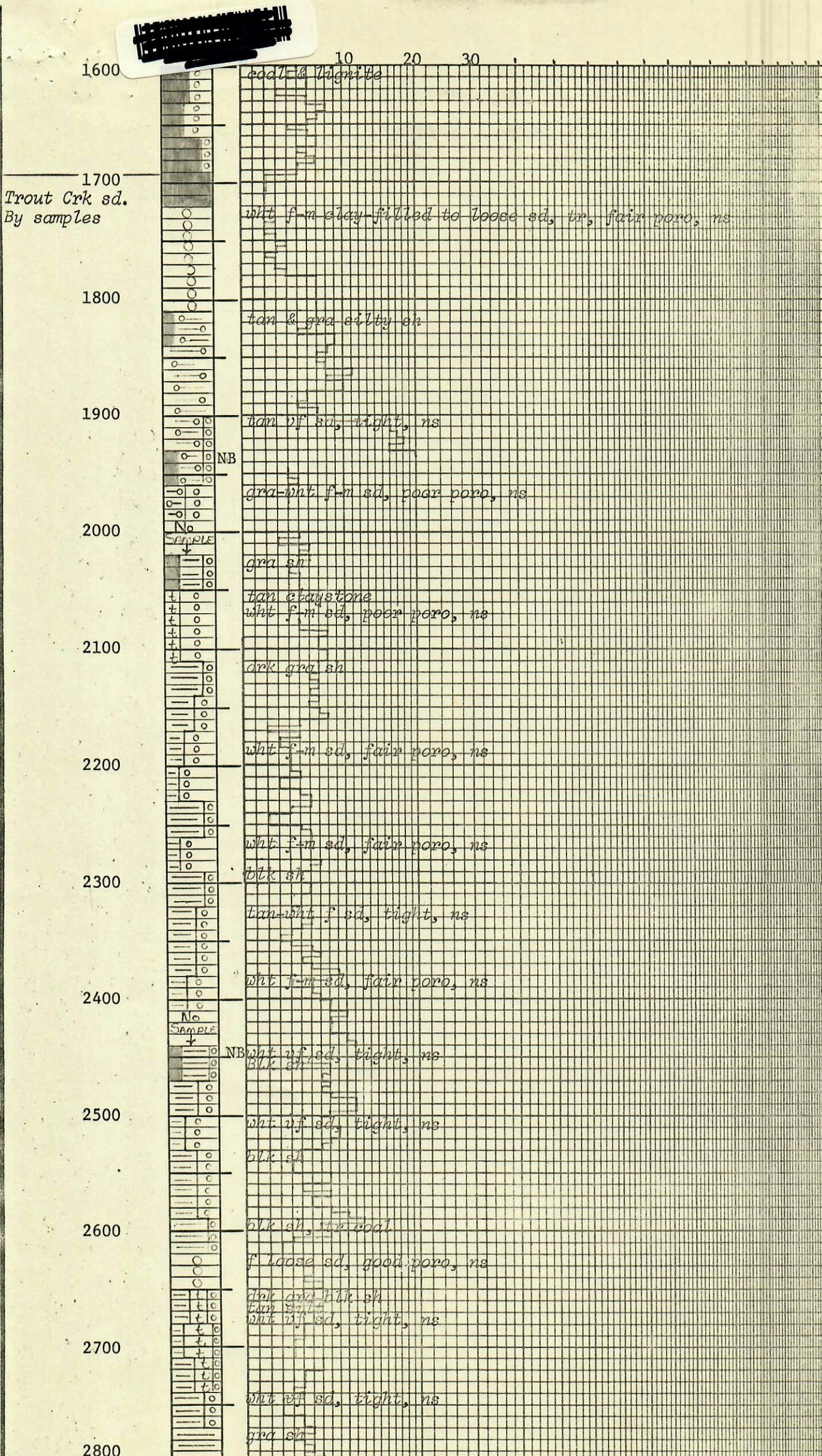
By: Harold Steitz

DEVIATIONS AND BITS:

DEVIATIONS		BITS		
Deviations	Depth	No.	Type	Diameter
	0'	1	Retip OSC	12 1/4"
1/4°	208'			
3/4°	400'	2	S3SJ	7 7/8"
1 °	845'			
1 1/4°	1090'			
1 3/4°	1302'			
1 1/4°	1466'	3	S3T	7 7/8"
1 1/4°	1676'			
1 °	1941'	4	S3T	7 7/8"
3/4°	2161'			
3/4°	2406'			
	2450'	5	S3	7 7/8"
1/4°	3080'			
	3083'	6	S3	7 7/8"
1/4°	3026'			
1 3/4°	3526'	7	S3	7 7/8"
2 1/2°	3855'	8	S3T	7 7/8"
2 3/4°	3911'			
2 1/2°	4055'			
3 °	4090'			



FORMATIONS By Samples	DEPTHS	LITHOLOGY	POROSITY PENETRATION RATE (min/ 5 ft.)	OIL & GAS SHOWS	FORMATIONS By Penetration Rate
OPERATOR	W. D. A. Corporation	WELL	#1 Grynberg-Federal	LOCATION	1-11N-88W
				ELEVATION	7471' GL 7483' KB
JOHN S. RUNGE PETROLEUM GEOLOGIST, CASPER, WYOMING					



2800

0 sd, tight ns

2900

Wht uf f hard sd, tight, ns

Wht f-m glauc. sd, poorly sorted, tight, ns

tan silt

gra silty sh

tan silt with c sd grains, glauc.

Wht f-m hard sd, tight, ns

Wht f loose sd, fair poro, ns

f-m loose sd, fair poro, ns

tr tan fr ls

Wht f glauc sd, tr tan fr ls

tight, ns, tr tan fr ls

3200

gra sh

Wht f s & p sd, poor poro

gra silty sh

Wht vf silty sd, tight, ns

3300

Wht vf glauc sd, tight, ns

Wht f-m tight sd, ns

gra silty sh

Wht f-m sd, tight, ns

Wht f-m sd, fair poro, ns

Wht f-m sd, fair poro, ns

3500

Wht f-m glauc-feld, sd, fair poro, ns

Wht m glauc, feld, sd, fair poro, ns

gra silty sh

gra silty sh

3700

gra silty sh

Wht f hard sd, tan lmy sd, tight, ns

tan fr ls

Wht f feld poorly sorted sd, tight, 20% fl & stn.

Wht f-m feld poorly sorted sd poor poro, 10% fl & stn.

gra f silty sd, tight, 10% fl & stn.

gra silty sd, poor poro, 10% fl & stn.

gra silty sd, poor poro, tr fl & stn.

Wht f loose sd, good poro, tr fl & stn.

Wht f loose sd, good poro, tr fl & stn.

Wht f loose sd, good poro, tr fl & stn.

Wht f loose sd, good poro, tr fl & stn.

Buck sh 3000

By Samples

Loyd sh

By Samples

Hatfield sh 3400

By Samples

Espy sh

3800

By Samples

Deep Creek

3900

By Samples

FORMATIONS
By Samples

DEPTHS

LITHOLOGY

POROSITY

OIL & GAS SHOWS

PENETRATION RATE (min/5 ft.)

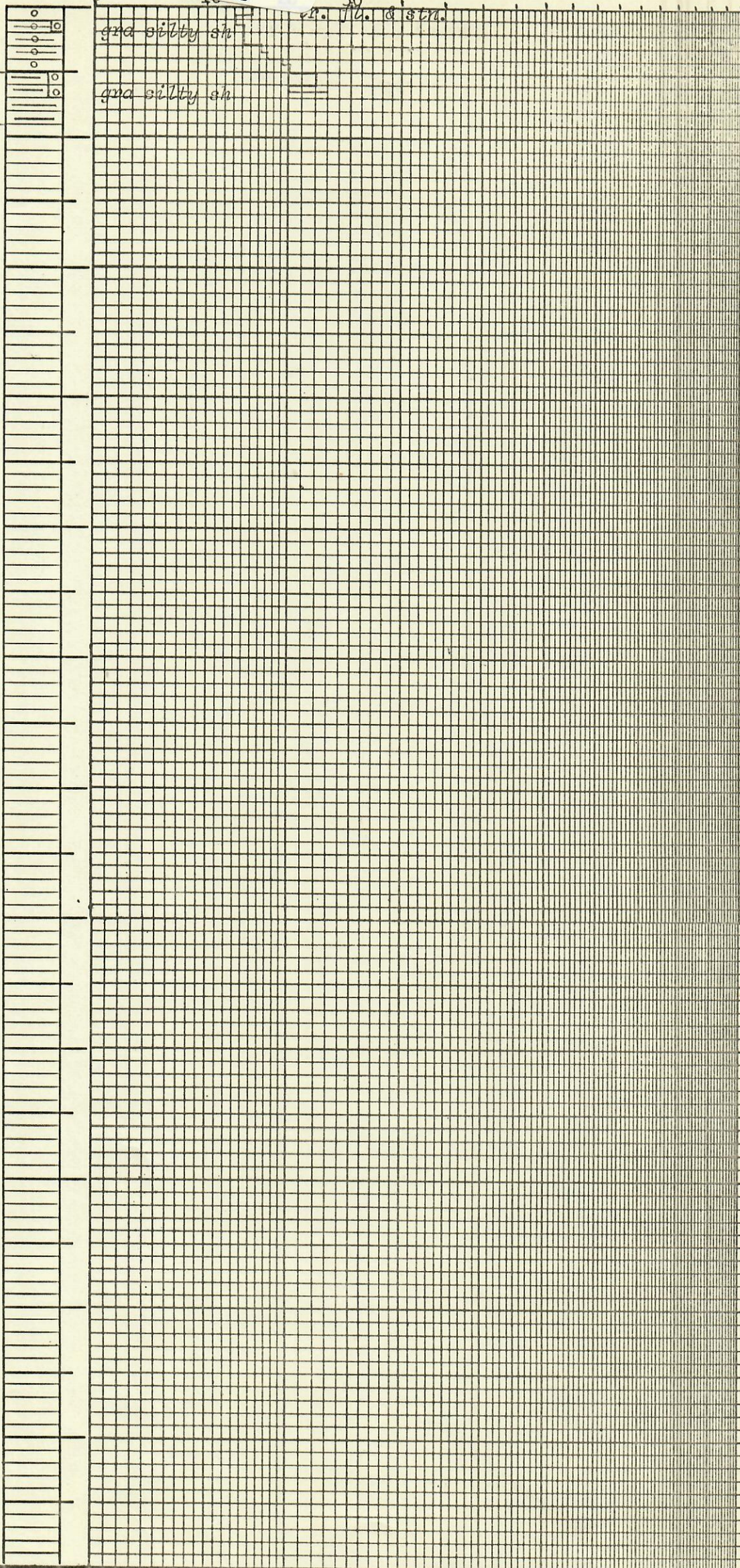
FORMATIONS
By Penetration Rate

OPERATOR W. D. A. Corporation WELL #1 Grynberg-Federal LOCATION 1-11N-88W ELEVATION 7471' GL 7483' KB

JOHN S. RUNGE, PETROLEUM GEOLOGIST, CASPER, WYOMING

4000

Mancos sh
By Samples
TD-40904100



FORMATIONS By Samples	DEPTHS	LITHOLOGY	POROSITY PENETRATION RATE (min/ 5 ft.)	OIL & GAS SHOWS	FORMATIONS By Penetration Rate
OPERATOR	W. D. A. Corporation	WELL	#1 Grynberg-Federal	LOCATION	1-11N-88W
				ELEVATION	7471' GL 7483' KB

JOHN S. BUNCE, DIRECTOR, GRYNBERG FEDERAL OIL FIELD