



SCAL, Inc.

SPECIAL CORE ANALYSIS LABORATORIES

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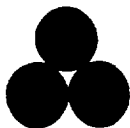
BUREAU OF LAND MGMT.
ROSWELL OFFICE

Devon Energy Corporation

Drilled Sidewall Core Analysis Report

**Todd 25 'A' Federal No. 1
Eddy County, New Mexico.**

The analysis, interpretations or opinions expressed in our reports represent the best judgement of Special Core Analysis Laboratories Inc.. Special Core Analysis Laboratories Inc. assumes no responsibility and makes no warranties of any kind as to the productivity, proper operation or profitability of any oil, gas or any other mineral in connection which such a report is used or relied upon.



SCAL, Inc.

SPECIAL CORE ANALYSIS LABORATORIES

August 21, 1997

Mr. Jason Hamilton

Devon Energy Corporation
20 N. Broadway, Ste. 1500
Oklahoma City, OK 73102-8260

Reference: Drilled Sidewall Core Analysis
File: 7488
Todd 25 'A' Federal No. 1
Eddy County, New Mexico.

Dear Mr. Hamilton,

Please find enclosed the final core analysis report for the 36 rotary sidewall core samples.

The following procedures were used:

The sample containers were opened and a gas detector was used to determine the presence and relative amount of flammable gas. The ends of the samples were trimmed and UV and natural light photography was taken. A Dean-Stark extraction was performed to remove the pore water. The rest of the oil was extracted using an automated CO₂ core cleaner. A material balance was performed to determine the oil saturation. After drying, the porosity and air permeability (@ 1,000 psi confining pressure) were determined.

It was a pleasure performing these analyses for you. If you have any further questions please feel free to contact our laboratory.

Thank you for using SCAL Inc..

Sincerely,

Anish Kumar, Ph.D.
Lab Manager/Geologist

Drilled Sidewall Core Analysis Report

Company : Devon Energy Corporation
 File No. : 7488
 Well : Todd 25 'A' Federal No. 1
 Location : 605 FNL AND 615 FEL

Field: Ingle Wells
 Formation: Brushy Canyon
 Eddy County, New Mexico

Sample Number	Depth	Air Permeability	Porosity	Grain Density	Sw	So	Gas Units	Fluorescence	Sample Description
	ft	mD	%	g/cc	%	%		%	Description
1	7,099.0	1.89	9.9	2.67	71.9	6.6	0	20	DI Gld Ss: Lt gy Fg Sang-Srd WI sort V cal
2	7,107.0	0.250	10.1	2.64	76.5	3.4	15	40	Yl lam Ss: Gy Vfig Sh bands & lam V sl cal
3	7,187.0	38.9	19.4	2.66	83.0	7.8	0	30	DI Gld Ss: Lt gy F-Vfig Srd WI sort V cal
4	7,247.0	3.37	16.7	2.66	61.1	9.2	0	50	DI Gld Ss: Lt gy F-Vfig Srd WI sort Sl cal
5	7,253.0	1.02	14.5	2.66	60.9	7.9	0	50	DI Gld Ss: Lt gy F-Vfig Srd WI sort Sl cal
6	7,257.0	0.926	14.9	2.63	61.8	13.3	0	50	DI Gld Ss: Lt gy F-Vfig Srd WI sort Sl cal
7	7,383.0	0.527	21.0	2.66	61.2	14.5	0	50	DI Gld Ss: Lt gy F-Vfig Srd WI sort Sl cal
8	7,400.0	0.546	19.1	2.67	62.5	14.2	0	40	DI Gld Ss: Md gy F- Vfig Srd WI sort Sl cal
9	7,418.0	1.27	16.9	2.65	57.1	19.4	0	50	DI Gld Ss: Lt gy Vfig WI sort Cal
10	7,557.0	0.113	10.8	2.68	54.8	17.7	0	50	DI Gld lam Ss: Lt gy Vfig WI sort Cal Sh lam
11	7,560.0	0.033	4.1	2.67	65.7	15.0	0	60	DI Gld Ss: Md gy F- Vfig Srd WI sort V cal
12	7,562.0	0.026	4.9	2.65	41.6	12.3	10	50	Brt Yl lam Ss: Md gy F- Vfig Srd WI sort
13	7,603.0	6.22	14.2	2.65	61.2	10.2	0	40	DI Gld Ss: Md gy F- Vfig Srd WI sort V cal
14	7,684.0	0.571	13.3	2.64	61.9	15.6	0	40	DI Gld Ss: Md gy F- Vfig Srd WI sort V cal
15	7,690.0	0.816	14.3	2.65	63.0	9.7	0	50	DI Gld Ss: Md gy F- Vfig Srd WI sort V cal
16	7,698.0	0.531	14.0	2.66	58.7	9.3	0	50	DI Gld Ss: Md gy F- Vfig Srd WI sort V cal
17	7,705.0	0.576	10.3	2.66	82.2	4.5	0	50	DI Gld Ss: Md gy F- Vfig Srd WI sort V cal
18	7,708.0	5.40	15.6	2.65	64.9	5.7	0	50	DI Gld Ss: Md gy F- Vfig Srd WI sort V cal
19	7,975.0	0.323	13.7	2.67	84.1	4.6	0	50	DI Gld Ss: Md gy F- Vfig Srd WI sort V cal
20	8,148.0	0.026	1.7	2.67	58.1	2.5	0	80	DI Gld Ss: Md gy F- Vfig Srd WI sort V cal

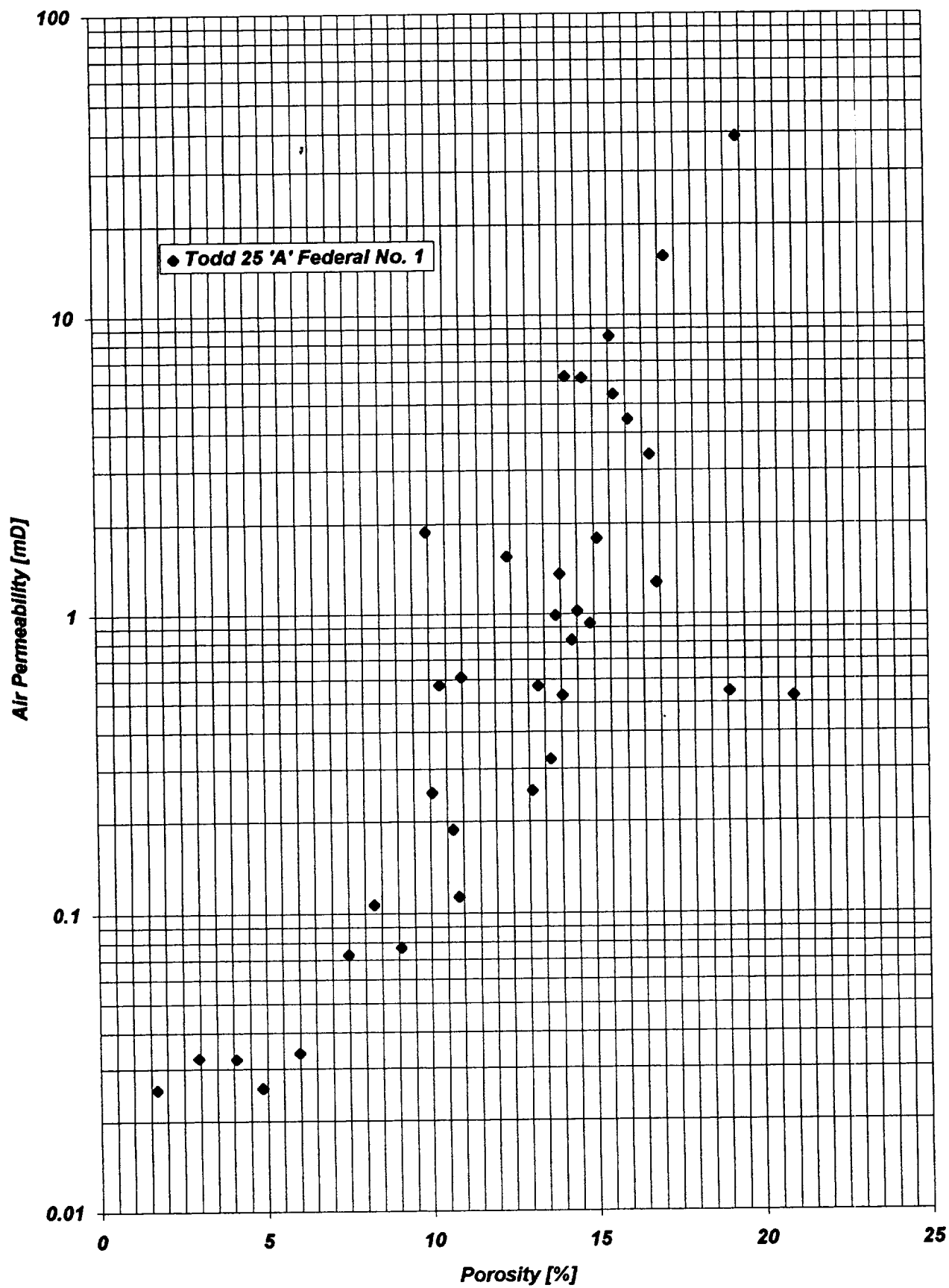
Drilled Sidewall Core Analysis Report

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 File No. : 7488
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 Location : 605 FNL AND 615 FEL

Field: Ingle Wells
 Formation: Brushy Canyon
 Eddy County, New Mexico

Sample Number	Depth	Air Permeability	Porosity	Grain Density	Sw	So	Gas	Fluorescence	Sample Description
	ft	mD	%	g/cc	%	%	Units	%	Description
21	8,152.0	1.36	14.0	2.67	51.6	0.0	0	10	Yl Ss: Md gy F- Vfg Srd WI sort V cal
22	8,156.0	0.987	13.9	2.67	81.9	6.5	0	70	DI Gld Ss: Md gy F- Vfg Srd WI sort V cal
23	8,222.0	0.612	11.0	2.67	61.3	10.5	100	70	Yl/Brt Yl Ss: Md gy F- Vfg Srd WI sort V cal Sh lam
24	8,225.0	0.253	13.1	2.67	50.3	9.3	5	50	DI Gld Ss: Lt-Md gy Vfg WI sort Cal
25	8,228.0	6.14	14.7	2.64	48.8	12.6	200	100	Brt Yl Ss: Lt gy Vfg Srd WI sort Cal
26	8,237.0	15.7	17.2	2.65	55.6	6.8	220	100	Brt Yl Ss: Lt gy Vfg Srd WI sort Cal
27	8,241.0	4.44	16.1	2.65	57.3	7.7	240	100	Brt Yl Ss: Lt gy Vfg Srd WI sort Cal
28	8,244.0	8.51	15.6	2.64	53.9	12.3	240	100	Brt Yl Ss: Lt gy Vfg Srd WI sort Cal
29	8,255.0	1.79	15.1	2.65	33.9	9.6	90	90	Brt Yl lam Ss: Lt gy Vfg Srd WI sort Cal
30	8,265.0	1.56	12.4	2.66	50.4	13.0	90	60	Brt Yl Ss: Lt gy Vfg Srd WI sort Cal
31	8,335.0	0.077	9.1	2.69	35.9	12.2	25	40	Brt Yl Ss: Lt gy Vfg Srd WI sort Cal
32	8,343.0	0.034	6.0	2.67	31.9	7.7	5	10	Gld Ss: Md gy Vfg Sh lam
33	8,347.0	0.188	10.7	2.67	44.1	23.9	180	80	Brt Yl Ss: Lt gy Vfg Srd WI sort cal
34	8,369.0	0.033	2.9	2.67	48.7	12.5	15	40	Brt Yl lam Ss: Lt gy Vfg Srd WI sort cal
35	8,376.0	0.107	8.3	2.67	52.7	15.7	18	60	Yl Ss: Lt gy Vfg Srd WI sort cal
36	8,383.0	0.073	7.5	2.66	41.4	17.2	22	50	DI Yl Ss: Md gy Vfg Srd WI sort

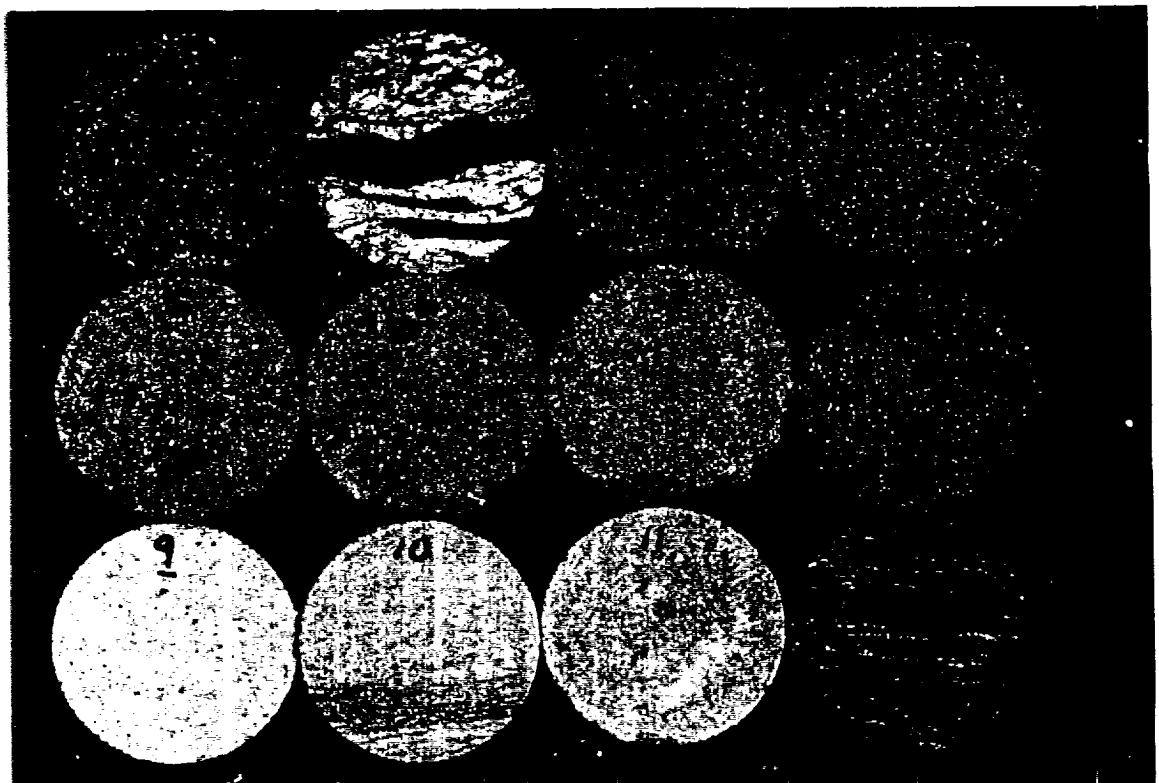
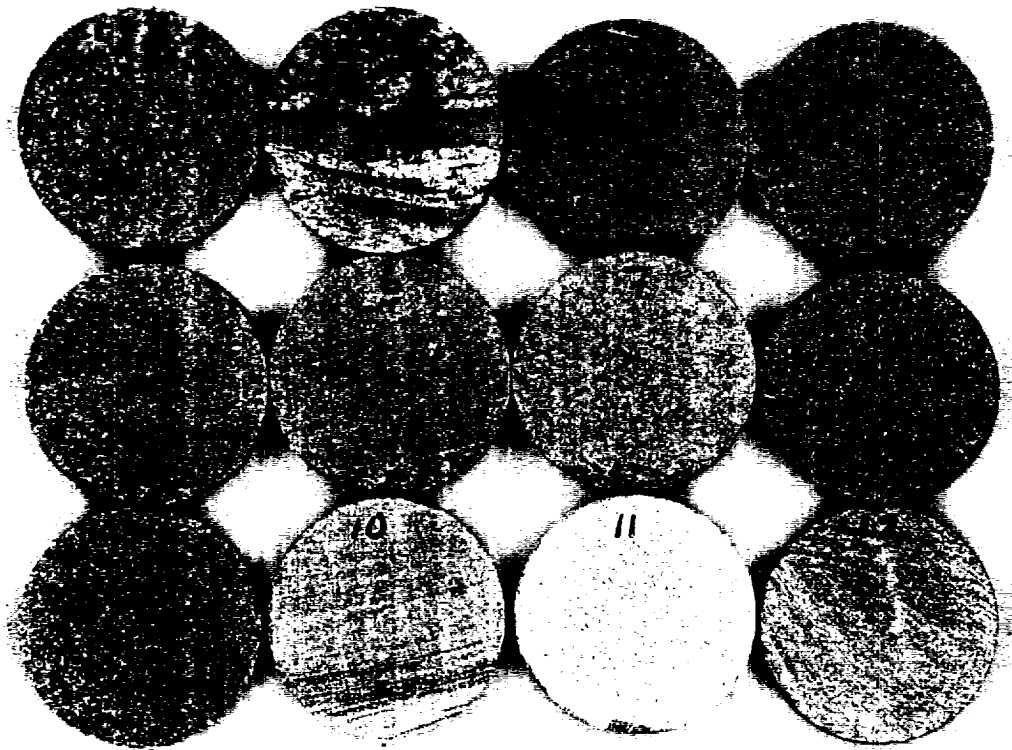
Permeability versus Porosity



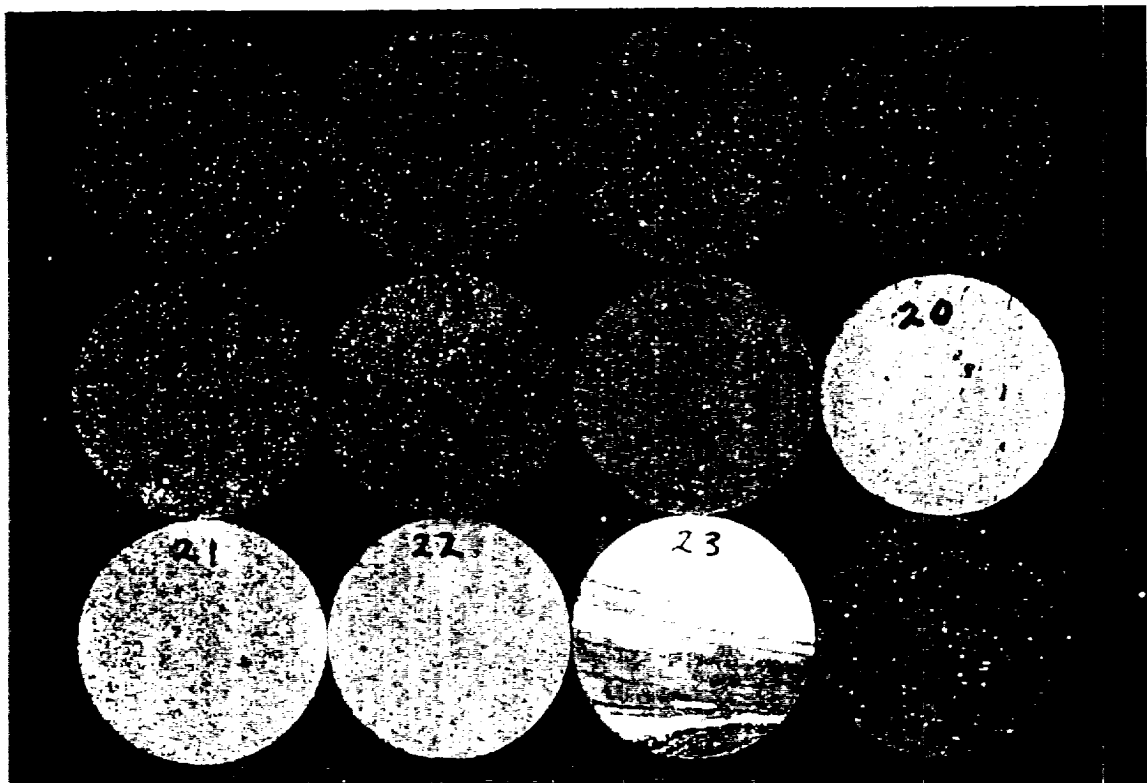
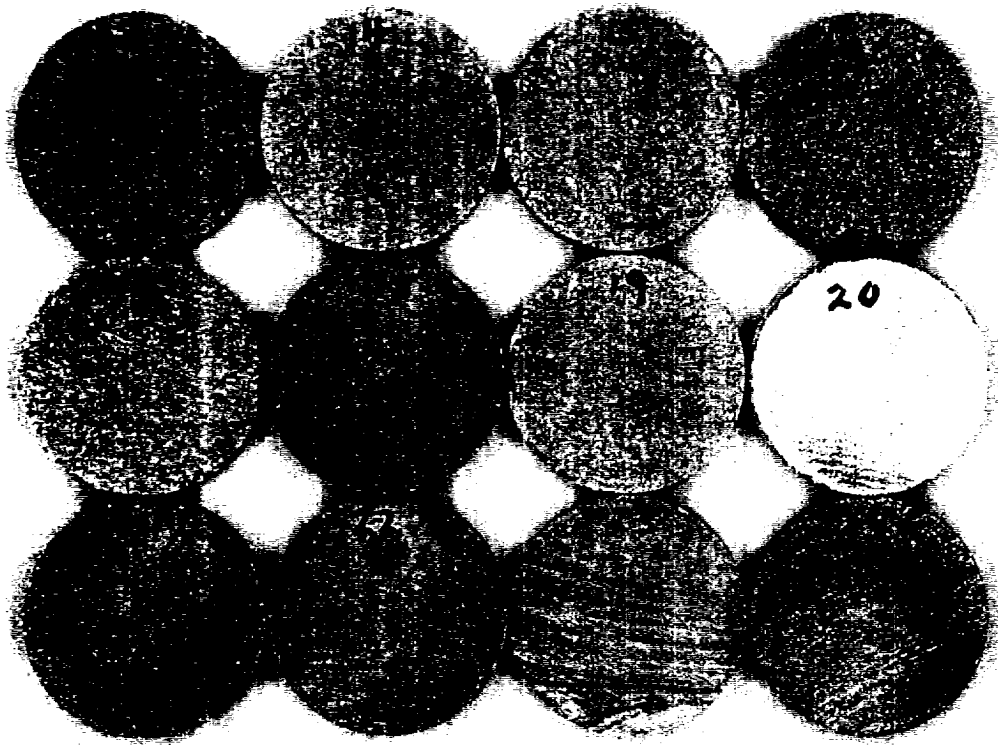
Core Description Abbreviations

ang	angular	gm	green	rd	red
anhy	anhydrite	grst	grainstone	md	round
ark	arkosic	gy	gray	sbg	subangular
arg	argillaceous	gyp	gypsum	sc	surface contamination
bl	blue	h/frac	horizontally fractured	sh	shale
bidgg	bleeding gas	hal	halite	strgr	stringer
bidgo	bleeding oil	incl	inclusion	sbrnd	subround
blk	black	intrgr	intergranular	scat	scattered
blky	blocky	intrxln	intercrystalline	sd(y)	sand(y)
bm	brown	ip	in part	sh	shale
brt	bright	lam	lamina(-ated)	shy	shaley
bf	buff	ls	limestone	sil	siliceous
calc	calcareous	lt	light	sl	slight(ly)
carb	carbonaceous	md	medium	slty	silty
cg	coarse grain	mf	mineral fluorescence	sp	spotty
cgl	conglomerate	mg	medium grain	ss	sandstone
chky	chalky	micr	micritic	silst	siltstone
chty	cherty	mod	moderate	srt	sorted
com	common	mtld	mottled	styl	stylolite
conch	conchoidal	mdst	mudstone	suc	sucrosic
cnsl	consolidated	n/a	not available	tbfa	too broken for analysis
crm	cream	nod	nodules	tn	tan
cslt	coarse siltstone	nvp	no visible porosity	tr	trace
dk	dark	o	oil	v	very
dns	dense	ool	oolitic	vtfrac	vertically fractured
dol	dolomite	omg	orange	vfg	very fine grain
dolic	dolomitic	peld	peloid	vug	vug(gy)
dru	drusy	pisol	pisolitic	w/	with
dul	dull	pk	pink	wht	white
fg	fine grain	pkst	packstone	wk(-ly)	weak(-ly)
fiss	fissile	por	porosity	wkst	wackestone
foss	fossiliferous	poss	possible	wl	well
frac	fractured	ppp	pinpoint porosity	xln	crystalline
fri	friable	pr(-ly)	poor(-ly)	xfg	extremely fine grained
gil	gilsonite	pfg	parting	xtl	crystal
glauc	glauconite	pyr	pyrite	yl	yellow

Todd 25 'A' Federal No. 1



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