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# CONTRIBUTIONS TO ECONOMIC GEOLOGY

(SHORT PAPERS AND PRELIMINARY REPORTS)

1921

PART II .- MINERAL FUELS



DAVID WHITE AND M. R. CAMPBELL GEOLOGISTS IN CHARGE



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### CONTENTS.

[The letters in parentheses preceding the titles are those used to designate the papers for advance publication.]

	advance publication.	_
		Page
(A)	The New Salem lignite field, Morton County, N. Dak., by E. T. Han-	
	cock (published May 6, 1921)	1
(B)	Geology of the Cement oil field, Caddo County, Okla., by Frank	
	Reeves (published August 10, 1921)	41
(C)	Oil prospects in Washington County, Utah, by Harvey Bassler and	
	J. B. Reeside, jr. (published August 15, 1921)	87
(D)	Lignite in the Fort Berthold Indian Reservation, N. Dak., by C. M.	
	Bauer and F. A. Herald (published December 3, 1921)	109
(E)	Geologic structure of parts of New Mexico, by N. H. Darton (pub-	
	lished March 31, 1922)	173
(F)	Geologic structure and oil and gas prospects of a part of Jefferson	
	County, Okla., by H. M. Robinson (published December 20, 1921)	277
(G)	The Lacasa area, Ranger district, north-central Texas, by C. S.	79
	Ross (published December 23, 1921)	308
	Index	315

### ILLUSTRATIONS.

Page.	Page.
I. A, Level upland in vicinity of New Salem, N. Dak.; B, Valley of Heart River in T. 138 N., R. 83 W., N. Dak6	. Dak6
II. A, Large glacial boulders on upland in sec. 17, T. 138 N., R. 84 W., N. Dak.; B, Cannonball marine member of Lance forma-	ber of Lance forma-
tion in bluff of Heart River, sec. 10, T. 138 N., R. 83 W., N. Dak	. 138 N., R. 83 W.,
III. Sections showing thickness, positions, and names of lignite beds in New Salem field, Morton County, N. Dak14	, N. Dak 14
IV. A, Dakota Products Co.'s mine near New Salem, N. Dak.;  B, Crown Butte, on upland in sec. 31, T. 140 N., R. 82 W.,	w Salem, N. Dak.; r. 140 N., R. 82 W.,
N. Dak	
N. Dak	38
VI Geologic map of Oklahoma showing on and gas helds	nd gas fields 42
VII. Erosion reatures of Cyrii gypsum and Whitehorse sandsones	tehorse sandstone 48
VIII. Erosion features of Cyril gypsum and Whitehorse sandstone 49	tehorse sandstone 49
IX. Cross-bedding in Whitehorse sandstone60	

		Page.
	Plotted logs of 11 wells in Cement oil field, Caddo County, Okla	72
XI.	Structural map of Cement oil field and surrounding territory, Caddo County, OklaIn p	ocket.
XII	Structural map of Kiowa area, Caddo County, OklaIn p	ocket.
XIII.	A, "Breaks" of the Little Missouri, looking southeast toward	
	the mouth of Hans Creek, N. Dak.; B, A thick bed of lignite	
	in the Fort Berthold Indian Reservation, N. Dak	112
	A, Badlands in sec. 26, T. 147 N., R. 93 W., N. Dak.; B, Badlands in sec. 25, T. 147 N., R. 93 W., N. Dak.	113
XV.	A, Missouri River, N. Dak., as seen from the upper margin of	
	the badlands, looking north; B, Valley of Moccasin Creek	111
	near its mouth, in sec. 6, T. 147 N., R. 92 W., N. Dak	114
XVI.	Stratigraphic sections in Fort Berthold Indian Reservation,	128
VVII	N. Dak., showing correlation of coal beds Sections of lignite beds in the northern part of the Fort	120
AV11.	Berthold Indian Reservation, N. Dak	132
VVIII	A, Bare buttes of the Fort Union formation on the south side	
Aviii.	of Hans Creek, N. Dak.; B, Log concretions in Fort Union	
	formation	140
XIX.	A, Glacial boulders on the upland in T. 147 N., R. 93 W.,	
	N. Dak.; B, Bed of lignite 8 feet thick in natural exposure	
	in sec. 14, T. 147 N., R. 93 W., N. Dak	141
XX.	Sections of lignite beds in the northern part of the Fort	
	Berthold Indian Reservation, N. Dak	144
XXI.	A, Fossil log standing nearly upright in clay shale of the	
	Fort Union formation; B, Fossil stump in Fort Union formation	152
XXII	. A, Sage-brush flat of Hans Creek, N. Dak., and bluffs of	
	the Fort Union formation; B, Rolling upland in the Fort	
	Berthold Indian Reservation, N. Dak	153
XXIII	. Sections of lignite beds in the southwestern part of the	
	Fort Berthold Indian Reservation, N. Dak	154
XXIV.	. $A$ , Buttes in sec. 9, T. 148 N., R. 93 W., N. Dak.; $B$ , Buttes	400
	in T. 148 N., R. 93 W., N. Dak	160
XXV.	. A, View up Squaw Creek, N. Dak.; B, Bare buttes in Squaw	101
******	Creek valley in sec. 10, T. 148 N., R. 93 W., N. Dak	161
XXVI.	Sections of lignite in the southern part of the Fort Berthold Indian Reservation, N. Dak	172
VVVII	Map of the northern part of the Fort Berthold Indian Reser-	1.12
AAVII.	vation, N. Dak., showing outcrops of lignite bedsIn p	ocket.
XXVIII	Map of the southwestern part of the Fort Berthold Indian	
	Reservation, N. Dak., showing outcrops of lignite beds_In p	ocket.
XXIX	. Map of the southern part of the Fort Berthold Indian Reser-	
	vation, N. Dak., showing outcrops of lignite bedsIn p	ocket.
XXX	. Map of New Mexico	174
XXXI	. $A$ , Bliss sandstone, San Andres Mountains, N. Mex.; $B$ , Coyote	-
	Butte, N. Mex	188
XXXI	I. A, Bluewater Canyon, N. Mex.; B, Inscription Rock, N.	100
*********	Mex at Pite N Mex : R Sandstone of	188
XXXIII	. A, Wingate sandstone at Rito, N. Mex.; B, Sandstone of	188

			Pag
PLATE		Sandstones at Navajo Church, N. Mex.	18
	XXXV.	A, Navajo and Dakota sandstones at Atarque, N. Mex.;	-
		B, Dakota sandstone at Bluewater Falls, N. Mex	19
	XXXVI.	A, Dome near San Ignacio, N. Mex.; B, West front of	
		Sacramento Mountains, N. Mex.	19
		West front of Sandia Mountains at Bernalillo, N. Mex	2
	XXXVIII.	Geologic map of Sandia and Manzano mountains and	
		Sierra de los Pinos, N. Mex.	2
	XXXIX.	A, Dakota sandstone on west slope of Cerrillos Basin,	
		N. Mex.; B, West front of Chupadera Mesa, N. Mex	22
	XL.	Geologic map of Tularosa Basin, N. Mex	22
	XLI.	Pilot Knob on west slope of San Andres Mountains, N.	
		Mex.	22
	XLII.	Geologic map of Jornada del Muerto, N. Mex	2
	XLIII.	Geologic map of part of Socorro County, N. Mex	2
	XLIV.	A, Base of Magdalena group east of Socorro, N. Mex.;	
		B, Upturned Magdalena beds east-northeast of So-	
		corro, N. Mex	2
	XLV.	A, Mesa del Yeso, N. Mex.; B, Sierrita Mesa, Naci-	3,57
		miento uplift, N. Mex	2
	XLVI.	A, Pyramid Rock, N. Mex.; B, Uplift at Atarque, N.	
	A TRIBOTAL	Mex	2
	XLVII	A, West slope of Zuni uplift at Nutria, N. Mex.; B,	
	2211 / 11.	Northwest slope of Zuni uplift east of Gallup, N.	
		Mex	2
	YLVIII	Geologic map of parts of Valencia and Socorro counties,	4
	ALIVIII.		2
	VIIV	N. MexSections across Sierra Lucero in Valencia and Socorro	4
	ALIA.		0
	T	counties, N. Mex.	2
	Li.	Map showing structure of valleys of Rio Salado and	0
		Alamosa Creek, Socorro County, N. Mex.	2
		Index map of Oklahoma	2
	LII.	Map showing the geologic structure in a part of Jeffer-	_
	1	son County, Okla.	2
		Map showing geologic structure in Lacasa area, Tex	3
		Selected well records in Lacasa area, Tex	3
FIGUR	E1. Index	map of North Dakota showing location of New Salem	
		ite field	
	2. Struct	ture section through New Salem and Sims, N. Dak	
	3. Sectio	ns showing position of lignite beds in Fort Union forma-	
	tion	in New Salem lignite field, N. Dak	
	4. Graph	showing the heating value of North Dakota lignite as	
	com	pared with other coals with which it may have to com-	
		A THE ROLL THE CONTROL OF THE ACTION OF THE CONTROL OF	
	5. Gener	alized section of Permian "Red Beds" of Oklahoma	
		exposed in Cement oil field, Caddo County, Okla	
		ximate boundary between marine and nonmarine sedi-	
		nts of basal Permian and upper Pennsylvanian in Kansas,	
		ahoma, and Texas	
		showing absence of relation of ridges to structure and	
	Acres (Inc.)	er features in Cement oil field, Caddo County, Okla	

IGUR	E 9.	Map of parts of Washington County, Utah, and Mohave County, Ariz
	10.	Map of the oil field near Virgin City, Utah
	11.	Map of part of the Virgin anticline, Washington County, Utah,
		showing the Harrisburg and Washington domes
	12.	Map of the Bloomington dome, Washington County, Utah
		Index map showing location of Fort Berthold Indian Reserva-
	14.	Diagram showing heating value of North Dakota lignite, compared with that of certain subbituminous and bituminous coals
	15.	Sections of lignite bed C, Fort Berthold Indian Reservation, N. Dak., showing characteristics of the bed and of partings
		Map showing the major structure of northeastern New Mexico-
		Section across Colfax and Union counties, N. Mex
	18.	Section from Pedernal Mountain across Guadalupe and Quay counties, N. Mex
	19.	Map of Esterito dome, Guadalupe County, N. Mex
-	20.	Section from south end of Rocky Mountains to Cuervo Butte, Guadalupe County, N. Mex
	21.	Generalized sections across the Rocky Mountains in New Mexico_
		Sections across the plateaus of southeastern Santa Fe County,
		southwestern San Miguel County, and eastern Torrance County, N. Mex
	23.	Sections across the Sacramento Cuesta and Guadalupe Mountains, N. Mex
	24.	Sketch section of anticlines and fault between Alamogordo and High Rolls, N. Mex
	25.	Map showing relation of anticline in Tijeras coal field, N. Mex-
	26.	Sections across the Sanida and Manzano mountains and the Sierra de los Pinos, N. Mex
	27.	Sections across Chupadera Mesa, N. Mex
		Sections across Tularosa Basin, N. Mex
		Log of deep boring at Oscuro, N. Mex
		Logs of two railroad wells at Carrizozo, N. Mex
		Sections across the Jornada del Muerto, N. Mex
		Sections across eastern Socorro County, N. Mex
	33.	Sketch section across the Joyita Hills, Socorro County, N. Mex-
	34.	Sections across San Pedro Mountain and Nacimiento Range, N. Mex
	35.	Map showing structure in part of Rio Arriba County, N. Mex
		Section across the plateau in Rio Arriba County, N. Mex
		Section along San Juan River, San Juan County, N. Mex
		Geologic sketch map of part of McKinley County, N. Mex
	39.	Map showing structure of part of northwestern New Mexico
	40.	Sections across the Zuni Mountain uplift, N. Mex
		Sections across the Gallup-Zuni Basin, N. Mex
		Section across north-central Socorro County, N. Mex
	43.	Section from Mimbres Mountains eastward through Kingston and Hillsboro, N. Mex
76	44.	Sections across the Florida Mountains, Luna County, N. Mex-

#### ILLUSTRATIONS.

. F

VII

IGURE 45.	Section through the Snake Hills, southwest of Deming, Luna
	County, N. Mex
46.	Section through the Klondike Hills, Luna County, N. Mex
47.	Section across the Victorio Mountains, south of Gage, Luna
	County, N. Mex
48.	Sketch section across the north end of the Big Hatchet Moun-
	tains, Hidalgo County, N. Mex
49.	Diagram showing principal sandstone and conglomerate beds
	that were found serviceable in mapping the structure of a
	part of Jefferson County, Okla
50.	Key map of north-central Texas showing location of Lacasa
	area
51.	Columnar section of rocks exposed in Lacasa area, Tex
52.	Key map of Lacasa area, Tex., showing locations of wells
	whose logs are given in Plate LIV



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# CONTRIBUTIONS TO ECONOMIC GEOLOGY, 1921.

### PART II. MINERAL FUELS.

DAVID WHITE and M. R. CAMPBELL, Geologists in charge.

#### INTRODUCTION.

The Survey's "Contributions to economic geology" have been published annually since 1902. In 1906 the increase in the number of papers coming under this classification made it necessary to divide the contributions into two parts, one including papers on metals and nonmetals except fuels and the other including papers on mineral fuels. In 1915 the year included in the title was changed from the year in which the field work reported in these papers was done to the year of publication, and in consequence there was no volume entitled "Contributions to economic geology, 1914." The subjoined table gives a summary of these bulletins.

United States Geological Survey "Contributions to economic geology."

Date in title.	Date of publication.a	Bulletin No.	Date in title.	Date of publication.a	Bulletin No.
1902 1903 1904 1905 1906, Part I Part II 1907, Part I Part II 1908, Part I 1909, Part I 1910, Part I Part II 1910, Part I Part II 1911, Part I 1911, Part I Part II 1912, Part I Part II	1905 1906 1907 1907 1908 1909 1910 1910 1911 1911 1911 1912 1913	213 225 260 285 315 316 340 341 380 381 430 431 470 471 471 471 471 471 471 471 471 471 471	1913, Part I Part II 1915, Part II 1916, Part II 1916, Part II 1917, Part II Part II 1917, Part II 1918, Part II 1919, Part II 1919, Part II 1920, Part II 1921, Part II Part II	1916 1917 1917 1918 1918 1919 1919 1920 1920 1921	580 581 620 621 640 641 660 661 710 711 715 716 725 726

a The date given is that of the complete volume; beginning with Bulletin 285, the papers have been issued as advance chapters as soon as they were ready.

As a subtitle indicates, most of the papers in these volumes are of three classes—(1) short papers describing as thoroughly as conditions will permit areas or deposits on which no other report is

likely to be prepared; (2) brief notes on mining districts or economic deposits whose examination has been merely incidental to other work; and (3) preliminary reports on economic investigations the results of which are to be published later in more detailed form.

Although these papers set forth mainly the practical results of economic investigations they include brief theoretical discussions and summary statements of conclusions if these appear to require prompt

publication.

## INDEX.

Trools Robins & Mark Conduction of	off and an analysis of the second sec
A.	Black Rock Mountains, Ariz., domes
Page.	near 104
Abo sandstone, distribution of, in	Bliss sandstone, San Andres Moun-
New Mexico 181	tains, N. Mex., plate
Abo siding, N. Mex., formations	showing 188
penetrated at 219-220 Acknowledgments for aid 3, 42,	Bloomington dome, Utah, descrip-
89, 110, 278	tion of 102–103
Alamogordo, N. Mex., materials pen-	favorable locality for drilling
etrated near 227-228	Bluewater Canyon, N. Mex., plate
Alamosa Creek, N. Mex., map show-	showing 188
ing structure in valley	Bluewater Falls, N. Mex., Dakota
of 266	sandstone at, plate
Animas Mountains, N. Mex., fea-	showing 196
tures of 275	Bluewater station, N. Mex., record
Antelope Spring, Ariz., anticline near 107	of boring at 255
Armijo, N. Mex., material pene-	Bodega, N. Mex., materials pene-
trated at 265	trated at 221
Arroyo Chupadero, N. Mex., features	Bonine, C. A., work of 110 Boulders, glacial, in N. Dak., plates
of basin of 239	showing 7, 141
Atarque, N. Mex., Navajo and Da-	"Breaks," occurrence of 111
kota sandstones at,	of the Little Missouri, near
plate showing 196 uplift at, plate showing 254	Hans Creek, N. Dak.,
uplift at, plate showing 254	plate showing 112
В.	Brown oil well, near Dayton, N.
D.	Mex., yield of 211 Buchanan, N. Mex., formations
Badlands in the Fort Berthold	Buchanan, N. Mex., formations penetrated south of 199
Indian Reservation, N.	Bunn, Frank, work of 3
Dak., distribution of_ 111-112	Buttes in North Dakota, plates
plates showing 113	showing 160
Bassler, Harvey, and Reeside, John	in Squaw Creek valley, N.
B., jr., Oil prospects	Dak., plate showing 161
in Washington County,	on Hans Creek, N. Dak., plate
Utah 87-107	showing 140
Bauer, Clyde Max, work of 110 and Herald, Frank A., Lignite	C.
in the western part of	Caddo oil sand, features of ,in the
the Fort Berthold In-	Cement oil field, Okla_ 72
dian Reservation south	Caddo Petroleum Co., analysis of oil
of Missouri River, N.	produced by 74
Dak 109-172	Campbell, M. R., acknowledgment
Beck grant, N. Mex., record of bor-	to 3, 110
ing on 198 Becker, N. Mex., materials pene-	Cannonball marine member of the
trated at 221	Lance formation, in
Belt well, near Dayton, N. Mex.,	North Dakota, features of 5-6, 7, 8-10
gas and oil from 211	on Heart River, N. Dak., plate
Big Hatchet Mountains, N. Mex.,	showing 7
features of 274	Carrizalillo Hills, N. Mex., features
Black Rock Canyon, Ariz., section	of 273
in 91	Carrizozo, N. Mex., materials pene-
showings of oil in 104-105	trated at 228-229

Page.	Page.
Carlsbad, N. Mex., formations pene-	Columbus, N. Mex., material pene-
trated south of 216	trated near 272
record of boring near 213-214	Comanche limestones and sandstones,
Carter Oil Co., records of borings	distribution of, in New
made by 261, 262	Mexico 185
Carthage, N. Mex., structure north	Concretions, log-form, in the Fort
of 234-237	Union formation, plate
Cedar Grove Mountains, N. Mex.,	showing 140
features of 273	Cooks Range, N. Mex., features of 270
Cement anticline, Okla., description	Coyote Butte, N. Mex., plate show-
of63-65	ing 188
Cement area, Okla., topography of_ 43-44	Crown Butte, near New Salem, N.
Cement dome, Okla., description of 64	Dak., plate showing 26
Cement oil field, Okla., development	Crown Point, N. Mex., log of boring
of 71-76	northwest of 251-252
development of, future direction	Cutter, N. Mex., materials pene-
of 75-76	trated south of 232
drainage of 44	Cyril gypsum member of the Greer
extent of 73-74	formation, effects of
geography of42-45	erosion on, plates
geology of 45-71	showing 48, 49
key rocks in 62-63	features of 48-50
logs of wells in, plate showing_ 72	Cyril syncline, Okla., description of_65-66
new oil sands in, probability of	and the second
finding 72–73	D.
oil from, grade of 74-75	D.
possibility of oil beyond the	
	Dakota Products Co., lignite min-
limits of 76	ing by12, 20, 23, 35-36
production from 73	mine of, plate showing 26
reasons for investigation 41	mine or, prace but wing
soil and climate of 44	Dakota sandstone, at Atarque, N.
statistics of wells in 77-79	Mex., plate showing 196
structural map ofIn pocket.	at Bluewater Falls, N. Mex.,
	plate showing 196
topography of, partly deter-	in Cerrillos Basin, N. Mex., plate
mined by structure 69-71	showing 220
towns and roads in 44-45	occurrence of, in Union and
unexposed rocks in 56-57	
Cerrillos Basin, N. Mex., Dakota	
sandstone in, plate	Darton, N. H., Geologic structure of
showing 220	parts of New Mexico_ 173-275
	Daw-Bell Development Co., log of
features of 216–217	well of 80
Cerrillos del Coyote, N. Mex., struc-	Dayton, N. Mex., oil wells near 211
ture south of 234-237	Dayton Petroleum Co., record of
Chama Basin, N. Mex., stratigraphy	
of 244	
structure of 242-243, 244-245	Dean, E. W., analysis by 75
Chapelle, N. Mex., record of boring	Defiance siding, N. Mex., record of
at 205	boring at 261
	Deming, N. Mex., materials pene-
Chaves County, N. Mex., borings in	trated near 272
progress in 216	Dips mistaken for structural dips 52-53
stratigraphy and structure	Dog Canyon station, N. Mex., mate-
of 210-216	
Chupadera formation, nature of, in	rials penetrated near 227
New Mexico 181-182	Dumble, E. T., and Cummins, W. F.,
Chupadera Mesa, N. Mex., plate	cited 279
showing 220	E.
stratigraphy and structure of 221-223	
Cibola Cone syncline and fault, N.	
Mex., features of 237	Eagle's Nest butte, N. Dak., situa-
Clapp, F. G., cited 47	tion of 112
Coal, analyses of 17-20	Eaton grant, N. Mex., record of bor-
heating value of 21–23	ing on 203-204
Cobb syncline, Okla., description of 66-68	Eddy County, N. Mex., borings in
Color, changes in, produced by as-	progress in 216
cending solutions 54-56	stratigraphy and structure of 210-216

Page.	Page.
El Paso & Southwestern Railroad	Fortuna Oil Co., analysis of oil pro-
Co., wells bored by, in	duced by 74
New Mexico_ 227–229, 232–234	log of well of 80-82
Empire Gas & Fuel Co., log of well	Fortuna oil sand, features of, in the Cement oil field, Okla_ 72
of, in Jefferson County,	Harris And And Street, Street
Okla288–289	Fossils, occurrence of, in New Mexico 180, 181, 182
Engle, N. Mex., materials penetrated at and near 232	occurrence of, in Fort Berthold
Estancia Valley, N. Mex., geology	Indian Reservation, N.
of 206–207	Dak 116
Esterito dome, N. Mex., description	Fruitland, N. Mex., record of deep
of 195–196	well north of 250-251
record of boring in 198-199	
	G.
F.	
Fairview, N. Mex., geologic features	Gallup, N. Mex., record of city
south of 268-269	artesian well at 260-261
Farmington, N. Mex., record of deep	record of well southwest of 262
well near 249–250	Gallup-Zuni Basin, N. Mex., records
Farmington Oil & Gas Co., record of	of borings in 260-262
well bored by 249-250	stratigraphy of 259
Fath, A. E., work of 110	structure of 257-258, 259-260
Flora Vista, N. Mex., formations	Gardner, J. R., acknowledgment to 196
penetrated near 251	Gibson, N. Mex., formations pene-
Florida Mountains, N. Mex., fea-	trated at 262
tures of 270	Girty, G. H., fossils determined by 180, 181
Florida Plains, N. Mex., features	Glaciation, effects of, in the Fort
of 270, 272	Berthold Indian Reservation, N. Dak 114
Fort Berthold Indian Reservation,	Gladstone Oil Co., analysis of oil
N. Dak., drainage of 112-113	produced by 75
field work in 109-110, 110-111	log of well of 83-84
lignite in, beds of 128-129 beds of, plates showing_ 112, 142	Glorieta Mesa, near La Cuesta, N.
sections of, plates	Mex., sandstone of,
showing_ 132, 144, 154, 172	plate showing 188
distribution of_ 126-127, 129-172	structure of 202
quantity of 125-126	Goldman, M. I., acknowledgement to_ 42
utilization of 127-128	Goodridge, Utah, oil wells at 246-247
value of 119, 125	Goodsight Mountains, N. Mex., fea-
location of 109	tures of 272
map of northern part ofIn pocket	Gordon, C. H., cited 268, 285
map of southern part ofIn pocket	Grafton, Utah, locality favorable for
map of southwestern part of_In pocket	drilling near 106-107
physiography of 111-113	Greer formation. See Cyril gypsum
rolling upland in, plate show-	member.
ing 153	Guadalupe County, N. Mex., record
settlement and industry in 113	of boring in 204–205
stratigraphic sections in, plate	Guam, N. Mex., record of boring at 257
showing 128	Gypsy Oil Co., record of hole bored by 198-199
stratigraphy of 113-117	Dy 100-100
structure of 117-119	H.
Fort Union formation, bare buttes of, on Hans Creek, N.	En-un alle evillerssen alle omnh arbrede
Dak., plate showing 140	Hager, Lee, cited 291-292
bluffs of, in North Dakota,	Hancock, Eugene T., The New Salem
plate showing 153	lignite field, Morton
features of, in North Dakota 5, 6,	County, N. Dak 1-39
8, 10–11	Hans Creek, N. Dak., sage-brush
fossil log and stump in, plates	flat of, plate showing_ 153
showing 152	Harrisburg dome, Utah, descrip-
log concretions in, plate show-	tion of 99-101, 107
ing 140	section of 92
nature of, in the Fort Berthold	Heald, K. C., acknowledgment to 42
Indian Reservation, N.	cited 56
Dak 114-117	Heart River, N. Dak., valley of,
origin of 118-119	plate showing6

Page.	L.
Herald, Frank A., work of 110	Page.
Herald, Frank A., Bauer, Clyde Max.,	Lacasa area, Tex., Adams anticline
and, Lignite in the	in 310-311
western part of the	Atkins anticline in 311-312
Fort Berthold Indian	Bunger limestone in 308
Reservation south of	gas well in 310, 312
Missouri River, N.	geography and mapping of 303-304
Dak 109-172	Gonzales dome in 311
Hurricane fault scarp, Utah, sec-	Gonzales limestone in 307-308
tion of 91	Home Creek limestone in 306-307
Section 1997 The Section 1997	Hagaman terrace in 309
I.	oil wells in 310, 313
	Ranger limestone in 306
Inscription Rock, N. Mex., plate	stratigraphy of 304–308
showing,188	structure of 308-312 map showing 308
THE RES LANG HOR MADE AND THE PARTY OF THE P	
J. Lew lo meet	Veale anticline in 309-310 wells and borings in and
the lateracke profit in talked intributely	near 313-314
Jefferson County, Okla., southern	plate showing records of 314
part, earlier geologic	
work in 277-278	Laguna, N. Mex., materials pene- trated near 265
southern part, field work in 278	
geography of special area	La Jara Peak, N. Mex., boring east
in277	of 266
Grogan anticline in 299, 301	Lake Valley, N. Mex., geologic feat-
prospecting in 300–302	ures north of 268-269
"Red Beds" in 278–279	Lance formation, features of, in
Red Creek anticline in 209,	North Dakota 5, 6, 7, 9
301, 302 sand dunes in 285	Landslides on Missouri River, N.
Seay anticline in 299, 301–302	Dak., features of 162-
stratigraphy of 278–279	163, 166
structural features in 297-300	La Plata group, nature and dis-
map showing 284	tribution of, in New
Tertiary residual deposits	Mexico 184
in 284–285	Lee, W. T., cited 191
Trinity sand in 283-284	Lemitar Mountains, N. Mex., geo-
unexposed rocks in 285-297	logic features of 240-241
wells in, logs of 286-297	Lenark, N. Mex., record of deep well
Wichita formation in 279-283	at 233
Jones, B. B., well, Jefferson County,	Lignite, analyses of 17-20, 120-122
Okla., log of 286-287	burning of beds of 117
Jornada del Muerto, N. Mex., geo-	heating power of 123-124
logic features of 229-230	importance of, in North Da-
geologic map of 230	kota 109
structure of 230, 231–232	in Fort Berthold Indian Reser-
Joyita Hills, N. Mex., geologic feat-	vation, N. Dak., nature
ures of 239-240	and distribution of 119-172
K.	in New Salem field, N. Dak., na-
A.	ture and occurrence
Keeche dome, Okla., description of 63-65	of12-39
Keeche Hills, Okla., origin and form	sections showing features
of 43	of 14 Lincoln, N. Mex., anticline west of_ 209–210
Keeche Oil & Gas Co., log of well of 82-83	Lincoln County, N. Mex., basin in_ 209
Kenzin siding, N. Mex., record of	Little Hatchet Mountains, N. Mex.,
deep well at 234	features of 274-275
"Kingman dome," Utah, description	Little Missouri River, "breaks" of,
of 103	near Hans Creek, N.
Kiowa area, Okla., structure of 68-69 structure of, map showingIn pocket.	Dak., plate showing 112
topography of 43	features of, in Fort Berthold
Klondike Hills, N. Mex., features of 273	Indian Reservation, N.
Knowlton, F. H., acknowledgment to 110	Dak 112-113
fossils determined by 6, 7, 11, 116	intrenchment of 111

Page.	Page.
Log, fossil, standing in the Fort	Negra, N. Mex., formations pene-
Union formation, N.	trated at 205
Dak., plate showing 152	New Mexico, conditions favorable
Lordsburg, N. Mex., materials pene-	and unfavorable to oil
trated near 275	in 173–175
Lucy, N. Mex., formations penetrated	central eastern, records of bor-
at 205	ings in 197–200
M.	stratigraphy of 195
And the same of th	structure of 194, 195-197
McGee boring, Quay County, N. Mex.,	Colfax County, dome in 189-190
log of 199–200	east-central plateau region,
McKinley Oil & Drilling Co., log of	records of borings in 203-205
well of 84-85	stratigraphy of 201-202
Magdalena group, base of, plate	structure of 202
showing 236	Luna County, ridges in north-
nature and distribution of, in	west corner of 274
N. Mex 179–180	map of 174
upturned beds of, plate show-	northeastern, dome in 189-190
ing 236	formations in 176
Malpais siding, N. Mex., materials	records of borings in 192-194
penetrated at 234	stratigraphy of 190-192
Mancos shale, features of, in New	structure of 192
Mexico 185	northwestern, formations in_ 177-178
Manzano group, nature and distribu-	older Paleozoic rocks in, com-
	plete exposure of 179
tion of, in New Mex-	sedimentary rocks in, general
ico 181–182	succession of 175–179
Manzano Mountains, N. Mex., geo-	southern, formations in 178–179
logic map of 218	southwestern, geologic features
structure of 217–218	of 269–275
Marion Oil & Gas Co., log of well of,	Union County, dome in 189-190
in Jefferson County,	west-central volcanic area, geo-
Okla290-291	logic features of 267
Matson, G. C., acknowledgment to 196,	New Salem lignite field, N. Dak.,
Mars del Vers N. West relate short	access to 4
Mesa del Yeso, N. Mex., plate show-	early explorations near 3-4
ing 237	field work on 1, 2, 3
Mesaverde group, subdivisions and	geography of 4-5
distribution of, in New	geology of 5-12
Mexico 185–186	map showing 38
Missouri River, features of, in Fort	lignite in, chemical properties
Berthold Indian Reser-	of 15–17, 20, 21
vation, N. Dak 112	exposures of 25-39
from upper margin of the bad-	heating value of 21-23
lands, in North Dakota,	mining of 23–25
plate showing 114	origin and distribution of 12-14
Moccasin Creek, N. Dak., valley of,	physical properties of 14-15
plate showing 114	location of 1, 2
Mohave County, Ariz., possibilities	towns in 28, 31, 34, 36, 37
of oil in 104-105	upland in vicinity of, plate
Moore, Raymond C., work of 3	showing 6
Morrison formation, nature and dis-	Noria, N. Mex., materials pene-
tribution of, in New	trated at 232-233
Mexico 184-185	North Chaves siding, N. Mex., record
Mount Riley siding, N. Mex., ma-	of well at 255-257
terials penetrated at 233	North Garcia siding, N. Mex., ma-
N.	terials penetrated at_ 264–265
Nacimiento uplift, N. Mex., strati-	terrais penetrated at 201-205
graphy of 241	0.
structure of 241, 242	161
Navajo Church, N. Mex., sandstones	Office of Indian Affairs, cooperation
at, plate showing 189	by 42
Navajo sandstone, at Atarque, N.	Oil. See Petroleum.
Mex., plate showing 196	Oklahoma, geologic map of, showing
in New Mexico, nature and dis-	oil and gas fields 42
tribution of 184	index map of 278

Page.	Page.
Orchard Park, N. Mex., formations	Quemado, N. Mex., boring northeast
penetrated near 216	of 267
Orogrande, N. Mex., materials pene-	R.
trated at 228	Same with the way of the family of the famil
Oscura anticline, N. Mex., structural features of 239	Raton coal field, N. Mex., formations
features of 239 Oscuro, N. Mex., materials pene-	present in 191-192 likelihood of oil and gas in 192
trated at 228	
trateu at 220	"Red Beds," distance of oil sands
P.	below, in Texas and Oklahoma 295–296
Parks, E. M., work of 110	improbability of oil in 187-188 origin of 58
Pastura, N. Mex., rocks penetrated	Permian, nature and distribu-
by well at 199	
Pecos River valley in Chaves and	tion of, in New Mex- ico 181-182
Eddy counties, N. Mex.,	Triassic, nature of, in New
oil in 211-212	Mexico 182–183
records of borings in 212-216	
stratigraphy of 210-211	Reeside, John B., jr., acknowledg- ments to 250, 251
structure of 211	Bassler, Harvey, and, Oil pros-
Pedernal Siding, N. Mex., forma-	pects in Washington
tions penetrated at 205	County, Utah 87-107
Peloncillo Mountains, N. Mex., fea-	Reeves, Frank, Geology of the Ce-
tures of 275	ment oil field, Caddo
Petroleum, accumulation of, relation	County, Okla 41-85
of structure to 61-62	Rio Grande valley, in central New
formations likely or unlikely to	Mexico, geologic fea-
contain, in New Mex-	tures of 220-221
ico 187–189	in northern New Mexico, for-
occurrence of, in the Pecos	mations in 217
River valley, N. Mex_ 211-212	in southern New Mexico, ma-
Picacho, N. Mex., dome near 209	terials penetrated in_ 232-
formations penetrated by boring	234
near 210	Rio Puerco station, N. Mex., ma-
Pierce, O. H., work of 110	terials penetrated at 264
Pilot Knob, N. Mex., plate showing 228	Rio Salado valley, N. Mex., map
Pintada Canyon, N. Mex., dome in 197	showing structure of 266
Plains of San Agustin, N. Mex., geo-	Robinson, Heath M., Geologic struc-
logic features of 268	ture and oil and gas
wells bored in 268	prospects of a part of
Platt well, near Dayton, N. Mex.,	Jefferson C o u n t y,
gas from 211	Okla 277-302
Plummer, Frederick B., cited 306	Rocky Mountains, prolongation of,
Prairie Spring anticline, N. Mex.,	in New Mexico 202
structural features of 238	structure of, in New Mexico_ 200-201
Producers Oil Co., log of well of, near Petrolia, Tex 292-294	Ross, Clarence S., The Lacasa area,
Prosperity oil sand, features of, in	Ranger district, north-
the Cement oil field,	central Texas 303-314
Okla 72	Roswell, N. Mex., records of borings
Pueblo Bonito School, McKinley	near 212–215
County, N. Mex., mate-	Roundy, P. V., acknowledgment to 42
rials penetrated near 251	cited 293
Purgatoire River, south fork of, in	Ryan, Jefferson County, Okla., anti-
N. Mex., geologic sec-	cline east of 299-
tion on 191	300, 301, 302
Pyramid Mountains, N. Mex., fea-	Ryan City Oil Co., log of well of,
tures of 275	in Jefferson County,
Pyramid Rock, N. Mex., plate show-	Okla 291
ing 254	S.
The second second second to second	
Q	Sacramento Cuesta, N. Mex., forma-
and Company Control of the Company o	tions penetrated by
Quaternary deposits, nature and dis-	boring in 210
tribution of, in New	stratigraphy of 207-208
Mexico 187	structure of 209-210

Page.	l'age.
Sacramento Mountains, N. Mex.,	Steiger, George, analyses by 74
west front of, plate	Stinchecum, C. V., acknowledgment
showing 197	to 42
Sage-brush flat of Hans Creek, N.	Strauss, N. Mex., materials pene-
Dak., plate showing 153	trated at 232
St. George, Utah, anticlines near_ 103-104	Stump, fossil, in the Fort Union for-
composite section for region near 92-93	mation, plate showing_ 152
San Agustin plains, N. Mex., geo-	Suwanee, N. Mex., materials pene-
logic features of 268	trated near 265
wells bored in 268	Swanker, Sidney, work of 3
San Andres Mountains, N. Mex.,	Of the state of th
geologic features of 229	T.
Sandia Mountains, N. Mex., geo-	The state of the s
logic map of 218	Tannehill well, N. Mex., record of 215 Taylor coal basin, N. Mex., geologic
structure of 217–218 west front of, plate showing 218	features of 238
San Ignacio, N. Mex., dome near,	Tertiary deposits, nature and distri-
plate showing 197	bution of in New Mex-
San Juan Basin, N. Mex., oil and	ico 186-187
gas in 246-247	Texas, north-central, Pennsylvanian
records of borings in 249-253	formations in 285
structure of 245-246, 247-248	Tijeras, N. Mex., anticline north of_ 218
San Juan Basin Oil & Gas Co., rec-	Tinnie, N. Mex., dome near 209
ords of deep wells	Todilto formation, nature and distri-
bored by 250-251	bution of in New Mex-
San Luis Range, N. Mex., features	ico 184
of 275	Tohachi, N. Mex., record of well
Seay, Oscar, well No. 1, Jefferson	southeast of 252-253
County, Okla., log of 287-	Toltec Co., records of borings made
288, 294	by 203–204, 212–213
Seven Lakes, N. Mex., formations	Tres Hermanas Mountains, N. Mex.,
penetrated near 251 Shea, Edward F., work of 41	features of 272
Shea, Edward F., work of 41 Sierra de los Pinos, N. Mex., geo-	Tularosa Basin, N. Mex., geologic map of 224
logic map of 218	materials penetrated in 227-229
structure of 217-218	stratigraphy of 223-226
Sierra Lucero, N. Mex., sections	structure of 223, 226–227
across, plate showing 262	
Sierrita Mesa, N. Mex., plate show-	U.
ing 237	
Sims, N. Dak., syncline at 12	United Oil Co., record of boring of,
Smith's Mesa, Utah, section of 90-91	in Union County, N.
Socorro County, N. Mex., geologic	Mex 193–194
maps of parts of 234, 262	
eastern part, structure of 234-241	V.*
north-central part, stratigraphy	Tilongia Compto N. Nicon malagia
of265-266	Valencia County, N. Mex., geologic map of part of 262
structure of 265, 266 Socorro Mountains, N. Mex., geo-	east-central part, records of bor-
logic features of 240-241	ings in 264–265
Southern Pacific Co., records of wells	stratigraphy of 263, 264
bored by 232-234	structure of 262, 264
Southspring Ranch & Cattle Co.,	Valle del Ojo de la Parida, N. Mex.,
record of boring by 214-215	features of 237-238
Springs in Fort Berthold Indian Res-	Valle Grande area, N. Mex., features
ervation, N. Dak., fea-	of 245
tures of 113, 131	Victorio Mountains, N. Mex., fea-
Squaw Creek, N. Dak., view on 161	tures of 273
Staked Plains region in N. Mex.,	Virgin anticline, Utah, description
boring in 216	of99-103
formations in 216	Virgin City, Utah, localities favor-
Stanton, T. W., acknowledgment to 110	able for drilling near 106
fossils determined by 6, 7, 10, 116	oil wells near 93-95, 96 Virgin River, section in narrows of,
State wells, Torrance County, N. Mex., records of 204	Ariz 92-93
McA., records of 204	A114 02-95

W.	Page
Page.	Whitehorse, cross-bedding in, plate
Washington County, Utah, difficul-	showing 60
ties of drilling in 106	erosion features of, plates
geology of 89-93	showing 48, 49
gas in 95	sandstone member of the Wood-
ground water in 105	ward formation, fea-
industry and settlements in 87-88	tures of 51-56
location and geography of 87	types of 52-54
oil in, commercial production	Wichita Mountains, development of_ 45
of 105-106	Winchester, Dean E., cited 265, 268
source of 95, 96-97, 98	Williams, Delbert, work of
oil prospects in 93-98	Wingate sandstone, at Rito, N.
prospecting for oil in 88, 97, 98-99	Mex., plate showing 188
structure in 93	nature and distribution of, in
Washington dome, Utah, descrip-	New Mexico 184
tion of 101-102	Woodruff, E. G., acknowledgment
favorable locality for drilling	to 110
on 107	Woodward formation. See White-
Water, force compelling upward	horse sandstone mem-
movement of 56	ber.
Wells, R. C., acknowledgment to 42	Z.
White, Bruce, work of 41	ALC-THE THE BILL BE
White, David, acknowledgment to 42	Zuni Mountains, N. Mex., records of
fossils determined by 180	borings in 254-257
Whitehorse sandstone member of	stratigraphy of 259
the Woodward forma-	structure of 255
tion, cross-bedding in,	Zuni uplift, N. Mex., plates show-
origin of 59-61	ing 258





