WORLD MARKET PAGE

PRICE OF STOCKS TENDS TO MOVE UP

Advance Accompanied by Increase in Breadth of Operations

NEW YORK, March 29.—Other tendencies in the stock market today were pronounceably upward, although profit taking occurred in the final hour, and there was a resultant list of call loans from 4½ to 6 per cent.

The advance was attended by a pronounced increase and breadth of operations, in which the short interest made voluntary but substantial contributions. In contrast to recent conditions, today's transactions comprehended a majority of the high-class or dividend-paying rails and industrials.

Some industrial properties were the chief accelerating force. A very considerable portion of the day's business apparently emanated from professional sources, but no small part of the inquiry for seasoned shares and bonds was credited to investors seeking an outlet for April interests and dividend incomes.

Steels, equipments, oils, motors and utilities were the stocks in demand. Coalers furnished much of the buying power among the rails, together with junior issues, especially Toledo, St. Louis & Western common and preferred. Sales amounted to 785,000 shares.

Withdrawals for federal account occasioned the firmer tone of demand money rates but time funds were unaltered. Many 30 to 90-day offerings were made on the 4½ per cent basis and several longer maturities for commercial paper were accepted at the same rate.

Dealings in foreign exchanges were unusually dull and irregular. Sterling showed a further slight recovery from the recent reaction.

Dealings in bonds today were broad but only moderately active. A very large percentage of the turnover was in Liberty issues. Practically that entire division, together with Victory notes, closed at gains. At top prices several of the Liberty 4's and all the 4¼'s established highest quotations of the year.

Among foreign offerings Mexican 4's and 5's made gains of 1 and 1¾ points respectively and several of the European municipals also strengthened.

Domestic rails continued to be absorbed on better earnings. Total sales, par value, aggregated $14,739,000.

Range of Prices.

	High	Low	Close
Pure Oil	30⅝	29⅞	30⅝
Sinclair	24⅞	24⅛	24⅞
Cosden	26⅛	25⅞	26⅛
Boston, Wyoming	69	68	68
Boone	31	31	31
Consolidated Copper	1⅞	1⅞	1⅞
Corb	5⅝	5⅝	5⅝
Federal	13¼	13⅛	13⅛
Livingston	1⅞	1⅞	1⅞
Sapulpa	5⅛	5⅛	5⅛
Simms	19⅞	19⅛	19⅞
Wayne	83	83	83
Woodburn	67	67	67
Mutual	⅞	⅞	⅞
Glen Rock	1 1-16	1	1 1-16
Merritt	19⅞	19½	19½
International Pet	15	15⅛	15⅛
Gilliland	9⅛	8⅞	9⅛
Shelty	⅞	⅞	⅞
Mosotah Prod	13⅛	13	13⅛
Franck	⅞	⅞	⅞
So. Peoria, Oil	19½	18½	18½
Indiana	8⅞	8½	8⅞
Ohio Oil	212	212	212
Pittsburg range			
Arkansas Gas	16⅛	15⅞	16⅛
Bell A	29½	28⅞	29½
Bal. B	28⅞	28	28
Lone Star	22⅞	22	22
O. P. S.	20⅞	20	20⅞
O. F. O.	15⅞	15	15⅞
Oklahoma Gas	26⅞	26⅛	26⅞
Total Usage	11⅞	11⅞	11⅞

Standard Oils.

Following is price asked and closing bid of Standard Oil stocks on the New York curb Wednesday, as reported by Henry Fiske & Co.:

Fiske & Co.	Bid	Asked
Anglo American	12⅞	13⅛
Atlantic Refining, com	910	920
Atlantic Refining, pfd	114	115
Borne Scrymser	340	350
Buckeye Pipe	84	86
Chesebrough, com	190	200
Chesebrough, pfd	109	112
Continental Oil	124	127
Crescent Pipe Line	55	75
Cumberland Pipe	110	115
Eureka Pipe Line	93	96
Galena Signal, common	45	47
Galena Signal, pfd	110	114
Galena Signal, pfd, new	101	104
Illinois Pipe	170	175
Indiana Pipe	100	107
National Transit	27½	27⅞
New York Transit	135	140
Northern Pipe Line	100	103
Ohio Oil	205	209
Ohio Oil	210	212
Prairie Oil & Gas	556	559
Prairie Pipe Line	330	337
Solar Refining	265	285
Southern Pipe	97	99
S. Penna. Oil	159	162
S. W. Penna. Pipe Line	85	88
Standard of California	60	61
Standard of Indiana	34⅞	35
Standard of Kansas	140	150
Standard of Kentucky	160	170
Standard of Nebraska	100	110
Standard of N. J.	173	174
Standard of N. Y. pfd	114⅞	115⅞
Standard of New York	214	216
Standard of Ohio	492	498
Swan & Finch	35	40
Union Traction Line	43	50
Vacuum Oil	258	262
Washington Oil	22	28

Independents.

Following is the price asked and closing bid of independent oils on the New York curb Wednesday, as reported by Houston Pipe & Co.:

	Bid	Asked
Arkansas Natural Gas	10⅞	10⅞
Elk Basin	6⅞	6⅞
Federal	1	1⅛
International Petroleum	15⅞	15⅞
Merritt Oil	19⅞	19⅞
Midwest Oil	3⅞	3⅞
Midwest Oil, pfd	8	9
Sapulpa	5⅞	6
Savoy	7	8
Boston, Wyoming	67	69
Glen Rock	1	1 1-16
Peacock	5⅞	5⅞
Penn. Mex	70	75
Livingston Petroleum	1⅞	1⅞
Magnet Oil	1	1
Shelty Oil	4⅞	5
Gilliland, com	8⅞	9
Cosden	26⅞	27
Houston Oil	37⅞	38
Indiahoma	13⅞	14
Mascot Oil	20⅞	21
Pipe Oil	39⅞	40
Simms	19⅞	20
Texas Pipe	45⅞	46
Transcontinental	8	9
U. S. Steel	91⅞	92
White Oil	3⅞	4

New York Money

NEW YORK, March 29.—Call money firmer; high 6, low 4½, ruling rate 6½, closing bid 4½, offered at 6, last loan 6, call loans against acceptances 5½. Time loans steady; 60-day 90-day and 6 months 4½@4½. Prime mercantile paper 4½@4½.

Foreign Exchange.

NEW YORK, March 29.—Foreign exchange steady.

Great Britain—Demand 4.77½, cables 4.77¾, 60-day bills on banks 4.73⅞.

France—Demand 5.06, cables 5.06⅛.

Italy—Demand 4.44, cables 4.44½.

Germany—Demand 2.05, cables 2.05½.

Wichita Livestock.

WICHITA, Kan., March 29.—Hogs—Receipts 1,700, steady; top $9.70, bulk $9.55@9.70.

Cattle—Receipts 100, steady; steers $8.00@7.00, calves $3.00@7.00.

Foreign Metals.

LONDON, March 29.—Lead—Spot 1.21 12s. 6d, futures 1.21 5s.

Zinc—Spot 1.25 12s 6d, futures 1.25 15s.

Cotton

NEW ORLEANS, March 29.—Better crop accounts than expected from the government was the dominating influence in the cotton market today. Lowest prices came in the late trading while the list stood at net declines of 12 to 28 points with May off to 16.27c. The close was 2 to 14 points lower than the close of yesterday, with May at 16.42c.

In the early trading the tone was steady and the rains in the central and eastern divisions of the belt were responsible for enough buying to put prices 1 to 5 points over Tuesday's finals, but when May traded at 16.54c the buying power of the market seemed to have been expended. The market did not move for a considerable period but the weekly returns from the belt as the middle of the morning fell an impression that lasted all day.

Daily Cotton Table.

Port Movt.	Rec'ts	Exports	Stocks
New Orleans	[illegible]	[illegible]	[illegible]
Galveston	[illegible]	[illegible]	[illegible]
Mobile	[illegible]	[illegible]	[illegible]
Savannah	[illegible]	[illegible]	[illegible]
Charleston	[illegible]	[illegible]	[illegible]
Wilmington	[illegible]	[illegible]	[illegible]
Texas City	[illegible]	[illegible]	[illegible]
Norfolk	[illegible]	[illegible]	[illegible]
Baltimore	[illegible]	[illegible]	[illegible]
Boston	[illegible]	[illegible]	[illegible]
Philadelphia	[illegible]	[illegible]	[illegible]
New York	[illegible]	[illegible]	[illegible]
Other ports	[illegible]	[illegible]	[illegible]
Total today	[illegible]	[illegible]	[illegible]
Total for week	[illegible]	[illegible]	[illegible]
Total for season	[illegible]	[illegible]	[illegible]
Last year Movement			
Houston	[illegible]	[illegible]	[illegible]
Montgomery	[illegible]	[illegible]	[illegible]
Augusta	[illegible]	[illegible]	[illegible]
St. Louis	[illegible]	[illegible]	[illegible]
Atlanta	[illegible]		
Little Rock	[illegible]	[illegible]	[illegible]
Dallas	[illegible]	[illegible]	[illegible]
Montgomery	[illegible]	[illegible]	[illegible]
Total today	[illegible]	[illegible]	[illegible]

New York Stock List.

(By Hunter Fiske & Co.)

Sales in Block Bids Low Close

Alas. Rubber	25	17⅞	18⅞	18⅞
Allied Chemical	23	53	52⅞	52⅞
Allis Chalmers	18	40	41⅞	41
American Agri. Chem	19	40⅞	39⅞	40⅞
American Beet Sug.	34	16⅞	16⅞	16⅞
American Can	71	46⅞	45⅞	46
Am. Car & Fdy	*			131⅞
Am. H. & L. pfd	7			70⅞
Am. Int. Corp.	8	43⅞	42⅞	43⅞
American Loco	3	110⅞	109⅞	110⅞
American Tobacco	4	241⅞	241⅞	241⅞
American Woolen	15	84⅞	83⅞	84⅞
Anaconda	15	33⅞	33⅞	33⅞
Atlantic	3	33⅞	33⅞	33⅞
At. G. & W. I.	4	23⅞	23⅞	23⅞
Baldwin Loco	172	100⅞	100⅞	100⅞
Balt. & Ohio	17	35⅞	35⅞	35⅞
Bethlehem Steel	84	51⅞	51⅞	51⅞
Calif. Packing	1	75	75	75
Calif. Petroleum	17	31⅞	32	32⅞
Canadian Pacific	46	126⅞	126	127⅞
Central Leather	22	35⅞	36	36⅞
Chandler	14	37⅞	37⅞	37⅞
Ches. & Ohio	10	61⅞	60⅞	61⅞
C. M. & St. Paul	13	31⅞	31⅞	31⅞
C. M. & St. P. pfd	23	50	49	50
C. R. I. & P.	37	40⅞	37⅞	37⅞
Chile Copper	24	13⅞	13⅞	13⅞
China Copper	5	13	13	13
Corn Products	13	165⅞	161⅞	165⅞
Cosden	3	26⅞	26⅞	26⅞
Crucible	38	51⅞	51⅞	51⅞
Cuban Am. Sugar	5	25⅞	25⅞	25⅞
Cuba Cane Sugar	112	15⅞	14⅞	14⅞
Endicott-Johnson	7	63⅞	63⅞	63⅞
Famous Players	31	74⅞	73	73⅞
General Asphalt	21	69⅞	69⅞	69⅞
General Electric	3	146⅞	144	146⅞
General Motors	23	16⅞	16	16⅞
Goodrich	12	18⅞	18⅞	18⅞
Great Nor. pfd	17	71⅞	71⅞	71⅞
Houston Oil	3	37⅞	37⅞	37⅞
Illinois Central	6	101⅞	101⅞	101⅞
Inspiration Copper	6	37⅞	37⅞	37⅞
Int. Harvester	11	55⅞	55⅞	55
Int. Mer. Mar. pfd	20	31⅞	31⅞	31⅞
International Nickel	29	19⅞	19	19⅞
International Paper	23	46⅞	45⅞	46⅞
Invincible Oil	120	19⅞	19	19⅞
Kansas City Southern	18	21⅞	21	21⅞
Kelly Springfield	24	45	44	45⅞
Kennecott	74	29⅞	29⅞	29⅞
Lackawanna Steel	14	65⅞	65⅞	65⅞
L. & N.	*	114⅞	114⅞	114⅞
Marland Oil	3	15⅞	15⅞	15⅞
Mexican Petroleum	120	110	118⅞	119
Miami Copper	7	17⅞	17⅞	17⅞
Middle States Oil	83	13⅞	12	13⅞
Midvale Steel	41	24	23⅞	23⅞
Mo. Pacific	13	21⅞	21⅞	21⅞
Mex. Seaboard	3	11⅞	11⅞	11⅞
Montgomery Ward	23	17⅞	17⅞	17⅞
National Enameling	4	25⅞	25⅞	25⅞
National Lead	23	93⅞	93⅞	93
Nevada Copper	16	11	11	11
N. Y. Central	11	87⅞	87	87⅞
New Haven	*			37⅞
N. & W.	2	103⅞	103	103⅞
Northern Pacific	28	79	78⅞	79
Pacific Oil	125	50	49⅞	49⅞
Pan-American	8	44⅞	44⅞	44⅞
Pennsylvania	7	38⅞	38⅞	38⅞
People's Gas	12	57	56⅞	56⅞
Pere Marquette	61	18⅞	18⅞	18⅞
Phillips Petroleum	28	38⅞	38⅞	38⅞
Pierce Arrow	1	16⅞	16⅞	16⅞
Pierce Oil	10	3⅞	3⅞	3⅞
Pittsburgh Coal	—	61⅞	61	61
Prod. & Ref. Corp.	3			8⅞
Pressed Steel Car	1			57⅞
Pullman	10	123⅞	123	123⅞
Punta Allegre Sugar	2			45⅞
Ray Oil	85	30⅞	29⅞	30⅞
Ray Copper	1			14⅞
Reading	24	74⅞	73⅞	74⅞
Replogle	1			32
Republic I. & Steel	6	87⅞	87	87⅞
Royal Dutch, N. Y.	14	54	54	54⅞
St. L. & San F.	1			53⅞
Sears-Roebuck	56	72⅞	72⅞	72⅞
Shattuck Oil	35	14⅞	14⅞	14⅞
Southern Pacific	23	84⅞	83⅞	84⅞
Southern Railway	32	22⅞	22⅞	22⅞
Standard Oil Calif.	*	37⅞	37⅞	37⅞
Standard Oil N. J.	5	173⅞	173⅞	173
Stromberg	4	46⅞	46⅞	46
Studebaker	101	106⅞	106⅞	106⅞
Texas Co.	19	42⅞	42⅞	42⅞
Texas & Pacific	15	32⅞	32	32⅞
Tex. Pac. Coal & Oil	2	28⅞	28⅞	28⅞
Tobacco Products	2	67	67⅞	67⅞
Transcontinental Oil	—	9⅞	9	9
Union Oil (Del)	24	27⅞	27⅞	27⅞
Union Pacific	12	134	133⅞	133⅞
United Drug	1			70
United Fruit	58	159⅞	157⅞	159
United Retail Stores	1			4⅞
U. S. Food Products	16			3⅞
U. S. Ind. Alcohol	15	66⅞	67⅞	67⅞
U. S. Realty	3	41	41	41
U. S. Rubber	13	67⅞	66⅞	67
U. S. Steel	139	95⅞	94⅞	95⅞
U. S. Steel, pfd	4	111	111	111
Utah Copper	13	63⅞	63⅞	63⅞
Vanadium Steel	30	35⅞	35⅞	35⅞
Va.-Caro. Chem	10	14⅞	14⅞	14⅞
Wabash pfd "A"	13	38⅞	38⅞	38⅞
Westinghouse	18	44⅞	44⅞	44⅞
White Motors	1			54⅞
White Oil	7	3⅞	3⅞	3⅞
Willys-Overland	19	8	7⅞	8

Total sales, 140,700.

Kansas City Livestock.

KANSAS CITY, March 29.—Cattle—Receipts 2,500, heavy steers steady to weak, others steady to strong; top steers closing sales, top medium weights $8.75, on stock generally steady to strong, few heifers $7.50, choice cows $6.50@6.75, calves steady to strong, few heifers $7.50, choice cows $6.00@6.25, calves steady to 50c higher, best vealers $9.00@9.50, all other classes around steady, many bulls $4.00@4.50, canners mostly $2.75@3.60, good cutters around $3.60, early sales stockers and feeders $6.00@7.75.

Hogs—Receipts 2,600, opened fairly active, strong to 5@10c higher, closing active to shippers and packers, steady with yesterday, bulk 160 to 190-pound weights $9.50@9.65, with few at $9.70, bulk $9.35@9.50, three-fourths sows generally $8.50, heavy weight hogs steady to strong, bulk good kind $8.25@8.60.

Sheep—Receipts 1,800, sheep strong, fresh shorn Texas wethers $9.00, lambs steady with yesterday's best time, top $13.35, bulk Colorados $13.00@13.25.

Chicago Livestock.

CHICAGO, March 29.—Cattle—Receipts 5,500, active, beef steers and she stock 15 to 25c higher, top beef steers $9.75, bulk $7.00@8.90, bulks and veal calves steady to strong, early sales veal calves $8.50@9.00, stockers and feeders dull.

Hogs—Receipts 16,000, fairly active, steadily to 5c lower, top $10.35, bulk $9.75@10.30, pigs steady, bulk 140 to 160-pounders $9.90@10.00.

Sheep—12,000, generally steady, wooled lambs $13.00, top shorn lambs early $13.25, shorn Texas yearlings and two $13.15, shorn wethers $10.85, light shorn ewes $7.75, shearing lambs $14.75.

KANSAS PROSPECT CUTS GRAIN DOWN

Prediction of Big Wheat Yield Has Bearish Effect on Market

CHICAGO, March 29.—Predictions of a big yield in Kansas this season had a bearish effect on the wheat market today. Closing prices were unsettled, 2-3c to 1 2-3c net lower, with $1.31 7-8 to $1.32 and July $1.17 to $1.18. Corn finished a shade to 1 1-8@1 3-8c down, oats at a shade decline to 1-8c advance, and provisions varying from unchanged to a setback of 30c.

Down turns in the price of wheat came chiefly near the end of the day and after a former president of the Kansas state board of agriculture was quoted as saying the Kansas wheat crop was entering the growing season with a prospect of a greater production than at any time in the history of the state. No more than 5 per cent of the acreage would be abandoned, it was said.

Action of the corn market seemed to depend mainly on changes in the value of wheat. Cold, wet weather, which delayed seeding, gave relative firmness to oats.

Provisions averaged lower with hog values. Packers did considerable selling of lard.

Oklahoma City Livestock.

OKLAHOMA CITY, March 29.—Receipts 1,200, active, 5 cents higher for week, top yearlings $7.50, bulk steers $6.50@7.25, top cows $6.00, heifers $7.00, canners and cutters $2.00@3.50, bulls $3.50@4.00, calves steady, stockers and feeders steady.

Hogs—Receipts 3,000, slow, mostly 5c lower, top $9.60, top $9.65, bulk $9.40@9.60.

Fort Worth Livestock.

FORT WORTH, Texas, March 29.—Cattle—Receipts 2,500, steers $3.00@7.75, stockers $2.50@6.00, cows $2.75@5.75, heifers $2.50@7.50, yearlings $5.50@8.75, calves $5.50@8.50.

Hogs—Receipts 4,000, eight $9.40@9.50, heavy $9.00@9.35, pigs $8.00@8.50.

Sheep—Receipts 1,000, lambs $9.50@13.00, yearlings $8.00@11.50, wether $8.00@8.50, stockers steady $4.00@7.50, feed lambs $9.50@12.50.

Kansas City Cash Grain.

KANSAS CITY, March 29.—Cash wheat No. 2 hard $1.32@1.41, No. 2 red $1.24@1.27.

Corn—No. 2 white 53c, No. 2 yellow $4@4½c, No. 2 yellow 54c.

Chicago Futures.

Wheat—	Open	High	Low	Close
May	1.27⅞	1.28⅞	1.31⅞	1.31⅞
July	1.19⅞	1.19⅞	1.17⅞	1.17⅞
Corn—				
May	.54⅞	.55⅞	.53	.54⅞
July	.55⅞	.55	.53⅞	.53⅞
Oats—				
May	.35⅞	.35⅞	.35⅞	.35⅞
July	.33⅞	.33⅞	.33	.33⅞

New Orleans Spot Cotton.

NEW ORLEANS, March 29.—Spot cotton steady and unchanged. Sales on the spot 1,945 bales, to arrive 1,641. Low middling 15.00, middling 16.25, good middling 17.52. Receipts 4,371, stock 232,839.

New York Spot Cotton.

NEW YORK, March 29.—Spot cotton quiet, middling 17.35.

Kansas City Produce.

KANSAS CITY, March 29.—Eggs firm, firsts 21½.

Butter, poultry and eggs unchanged.

Chicago Produce.

CHICAGO, March 29.—Potatoes dull, 29 cars, total U. S. shipments 857. Wisconsin sacked round white $1.60@1.70 cwt. Minnesota sacked Red rivers $1.55@1.65, cwt. Idaho sacked russets $2.15 cwt., Idaho sacked rurals few sales $1.60 cwt.

Butter unchanged.

Eggs higher, 254 cases, firsts 22½, miscellaneous 22@23½, storage packed extras 25c.

Poultry, alive higher, fowls 25, springs 29, roosters 18c.

New York Metals.

NEW YORK, March 29.—Lead—Steady, spot 4.50@4.60.

Zinc quiet, East St. Louis delivery spot 4.70@4.75.

Liberty Bonds.

NEW YORK, March 29.—Liberty bonds closed: 3½s 99.10, first 4s 98.40, second 4s 98.70, first 4¼s 98.54, second 4¼s 98.20, third 4¼s 99.54, fourth 4¼s 98.54, Victory 3¾s 100.04, Victory 4¾s 100.86.

Cottonseed Oil.

NEW YORK, March 29.—Cottonseed oil was irregular with a mixed local trading. May closed 15 points lower and later months 5 to 8 points higher. Sales 10,900 barrels. Crude markets were easier. Prime crude 10.00c asked, prime summer yellow spot 11.50c, May 11.42c, July 11.55c, September 11.85c all bid.

In the Oil Fields

Evaporation Losses.

(By U. S. Bureau of Mines.)

Tank manufacturers are greatly interested in the work of J. H. Wiggins, petroleum engineer of the bureau of mines, looking toward the prevention of oil evaporation losses. Manufacturers are improving their tanks so as to decrease losses. Laboratory work on determining the vapor pressure of crudes is being continued at the Bartlesville, Okla., petroleum station. Some difficulty has been encountered in making apparatus perfectly tight under a high vacuum.

Map of Slick Oil Field

(By U. S. Bureau of Mines.)

A map of the Slick oil field, located in townships 15 and 16 north, range 10 east, Creek county, Oklahoma, has just been completed by the United States bureau of mines. The map, which was made in connection with an engineering report being prepared on the Slick field, has been corrected to March 6, 1922. The map shows the various operating companies, number, elevation and location of all wells in the field. It is 27 by 38 inches, is drawn to a scale of 1,000 feet to one inch, and is printed on white paper. Wells producing from either the Glenn, Dutcher or Wilcox sands are designated by certain symbols. Copies of the map may be obtained at a price of 25 cents each from the Bartlesville chamber of commerce, Bartlesville, Okla.

Late News From the Freak Well at Collinsville.

They are running the casing again today for the third time at the freak water well northeast of Collinsville, in the southeast of the southwest of 3-22-14. This is the well that flowed at the rate of 15,000 barrels per 24 hours for several days. It is now 1,404 feet deep and they intend to go to the Wilcox sand.

Peters-Finance Test May Be a Producer.

The C. B. Peters-Finance Oil company test in 5-27-6, a mile north of production in the Burbank pool, is underreaming at 2,905 feet to drill deeper, and according to many oil men and geologists has a splendid chance of being a deeper sand producer.

In the Depew District.

The Texas company No. 1 Beaver, in the southeast of the southwest of the northwest of 15-14-8, is rigging up.

Buel and the Independent Oil and Gas are rigging up for No. 2 Beaver in the northeast corner of the northwest of the southwest of 14-15-8.

Buel and the Independent Oil and Gas are drilling at 2,290 feet in the No. 3 Beaver in the southeast corner of the northeast of the southwest of 15-14-8.

In Greenwood County, Kansas.

The Shelby Oil & Gas Co. No. 1 Wingrave, just south of the town of Severy, Greenwood county, Kansas, was drilled in last Saturday and is making 50 barrels natural. The company moved one location east and is rigging up for No. 2.

The wildcat well drilled by the Sandoma Oil company in the southeast corner of the south half of the northwest of 7-22-13, Greenwood county, Kansas, is pumping 199 barrels in the sand from 1,093 to 1,102 feet.

Minnehoma Oil Company Has Another Big Well.

The Minnehoma Oil company No. 3 Puneker field, in the northeast corner of the northeast of the northeast of 24-11-11, reached the top of the sand at 2,634 feet, was drilled to 2,652 feet and is making 2,000 barrels.

Oil Shale Investigations.

(By U. S. Bureau of Mines.)

Complete equipment for the analysis of oil shales and the testing of shale products recovered has been installed by the University of Indiana, Bloomington, in preparation for the co-operative work with the United States bureau of mines on the Indiana shales. Work has recently been conducted by the bureau of mines at Boulder, Colo., and Salt Lake City to determine the effect of the size of the shale retorted. The following facts have been fairly definitely established: (1) Crushing causes segregation of the oil-yielding material of the shale; (2) size has very little effect on oil production. These general results have been obtained on Utah and Colorado shales, but more tests are necessary before the results can be published. Experiments with the horizontal retort at Boulder definitely establish the fact that the quality of oil produced from shale increases as the rate of heating decreases, but the quantity gradually decreases under the same conditions. The results obtained from these runs are being compiled for a report to be published by the state of Colorado. Work on the elementary analysis of standard shales is practically completed at Boulder. It was found impossible to make an absolutely clean separation of the mineral constitutents of shale from the kerogen, but the ash in the kerogen has been reduced to less than 3 per cent. After work on the Colorado shale has been completed, work will be begun on a sample of Scotch shale and afterwards on shales obtained from different parts of the United States.

Detection of Explosive Vapors.

(By U. S. Bureau of Mines.)

An investigation was recently undertaken by the bureau of mines at Pittsburgh, Pa., at the request of the bureau of construction and repair, navy department, for the purpose of determining the feasibility of using the Burrell gas indicator for detecting the presence of an explosive mixture of fuel oil vapors in compartments on shipboard. Three typical fuel oils were tested in duplicate at four different temperatures, 30, 50, 70 and 83 degrees Centigrade, and the gases liberated at these temperatures were analyzed by Haldane analysis to determine the average compositions and amounts of the vapors liberated at the different temperatures. It was found that the gases varied with the different fuel oils and also with the fuel oil with varying temperatures. The variation of the gas liberated ranged from propane, C3H8 to octane, C8H18. A scale was made to read relative inflammability, which was found to be approximately correct for all saturated hydrocarbon vapors between butane and octane. This should apply for all gases given off by fuel oils.

In Creek County.

The Selby Oil & Gas Co. No. 1 Bruner, in the southeast corner of the southwest of the northwest of 18-16-9, has reached the top of the sand at 2,819 feet and the well is expected in today.

ROTARIANS IN STOMP DANCE

Pawhuskans to Give Model Luncheon at Muskogee Convention.

PAWHUSKA, March 29.—An Indian stomp dance will be given by the Pawhuska Rotarians who attend the Seventeenth district Rotary convention in Muskogee this week.

The club will give one of the model luncheons of the convention, at which time music will be furnished by the Rotary quartet, which includes Dr. Roscoe Walker, J. Francis Elam, Joe Ferguson and Jack Heaton, with Sherrill B. Smith as accompanist, and by a saxophone quartet, composed of Mr. and Mrs. Claude Whitlock, Miss Pauline Whitlock and Edward Phelps.

Military Funeral for Wreck Victim.

DALLAS, Texas, March 29.—Bruce Frazier, who was killed Monday in a railroad accident near Royce City, will be given a military funeral by the John W. Low post of the American Legion. Members of the legion will act as pallbearers. A squad of soldiers, who were brothers with him in arms, will fire the salute. Taps will be sounded.

Are You Fat? Just Try This

Thousands of overfat people have become slim by following the advice of doctors who recommend Marmola Prescription Tablets, those harmless little fat reducers that simplify the dose of the famous Marmola Prescription. If too fat, don't wait—go now to your druggist and for one dollar, which is the price the world over, procure a case of these tablets. If preferable you can secure them direct by sending price to the Marmola Co., 4612 Woodward Ave., Detroit, Mich. They reduce steadily and easily without tiresome exercise or starvation diet and leave no unpleasant effect.—Advertisement.

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"THAT LITTLE GAME" —By B. Link

SET FIFTY MEN TO WORKING

Brick Plant Resumes Operation With Full Force Laborers.

Special to The World.

BLACKWELL, March 29.—The Blackwell Brick Manufacturing company is now operating its plant located in Blackwell full capacity which means that 40,000 common brick are being finished daily. The Blackwell plant has been closed down for some time but since the new supply of gas has been piped to town it will run regularly it is said.

This plant will care for 50 workmen who have been out of employment for some time, which will relieve the unemployed situation.

Court Can Force Klansmen to Talk.

AUSTIN, Texas, March 29.—That grand juries of the state of Texas have the power to question witnesses called before them regarding their membership in the Ku-Klux Klan and make them divulge the names of officers of the klan was the substance of an opinion handed down by the court of criminal appeals today.

Ford Sued for $11,000,000.

MIAMI, Fla., March 29.—Suit for $11,000,000 damages was instituted today against Henry Ford in Dade county circuit court here by Edgar S. Huff, a local electrical engineer, for compensation alleged to be due him as royalties on the designs used on all automobiles, tractors and other motor equipment manufactured by the Ford Motor company.

BRUISES-SPRAINS Alternate applications hot and cold cloths—then apply— VICKS VAPORUB Over 17 Million Jars Used Yearly

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A Picture of Gorgeous Beauty. A Story of Heart-Filling Human Appeal

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