

## Exploration Highlights & News

(con't from Web Home Page / Weekly Highlights - November 23, 2023)

- **Crude Prices Kansas** - Coffeyville Resources (CVR) reported Kansas Common Crude price dropped \$2.75 / bbl from last week to \$68.00 / bbl (-3.9%) as of November 21, 2023. Central Kansas Crude declined to \$69.50/ bbl and Eastern Kansas Crude settled at \$67.00 / bbl. Oklahoma Sweet Crude also dropped \$2.50 / bbl to \$74.25 / bbl (-3.3%).
- **Spot Oil Price** - Spot market oil price (WTI) was up \$4.61 / bbl from last week to \$77.65 / bbl (+6.3%).
- **Spot Gas Price** - Spot Market natural gas price was down 20¢ / MMBtu from a week ago to \$2.86 / MMBtu (-6.5%).
- **Henry Hub** - Pricing point for natural gas futures contracts as traded on the New York Mercantile Exchange (NYMEX), and trades on Intercontinental Exchange (ICE), was unchanged from a week ago at \$2.69 / MMBtu.
- **Rig Count Kansas** - The total number of active drilling rigs in Kansas, either scheduled, moving to, or currently on drill site was up four rigs from week ago to 43 (+10.3%). There were 35 active drilling rigs in the State a month ago (+22.9%). A year ago, 52 drilling rigs were active in the State (-17.3%).
- **Western Ranges Kansas** - Drilling in the Western Ranges of the State (1W - 42W) shows an estimated 2,616,590 ft of wellbore has been drilled in 2023 compared with 3,622,475 ft a year ago (-27.8%).
- **Eastern Ranges Kansas** - An estimated 667,000 ft of wellbore has been cut in the Eastern Ranges of the State (1E - 25E) in 2023 compared with 792,375 ft a year ago (-15.8%).
- **Total Footage Drilled Kansas** - Statewide, an estimated 3,283,590 ft of wellbore has been drilled, compared with 4,414,850 ft over the same period in 2022 (-25.6%). There have been 1,196 wells drilled in the State this year, which is 351 less wells compared with the same period in 2022 (-22.7%). Bottom line, this reflects an overall average decline of 23% in the Kansas oil industry compared with last year.
- **Active Operators Kansas** - The number of licensed active operators who have drilled a well in Kansas in 2023 now numbers 219, or 44 less compared with a year ago (-16.7%).

(Nov. 16 2023) ..... **Shakespeare Oil Company, Inc.**, salem (IL), has discovered new oil reserves nearly three miles west of recognized oil production in the Castle Bluff pool (2013, Lansing-Kansas City oil) in Gove County. Operator drilled the #1-22 Heier Comm to a total depth of 4,488 ft at site in the NE/4 of section 22- T12s- R29W. The wildcat well is on pump producing undisclosed amount of crude oil from the Lansing-Kansas City and Marmaton (Pawnee) formations. The new unnamed oil field is located about two miles north and one mile west of Gove, Kansas. (Ref: API 15-063-22434)

(Nov. 9, 2023) ..... **New Oil Fields Named in Kansas:** The Kansas Geological Society's Nomenclature Committee, in association with the Kansas Corporation Commission (KCC) and the Kansas Geological Survey, has recognized and named 10 new oil fields and two Infield wildcat discoveries in Kansas at a meeting held in Wichita, Kansas on November 7, 2023.

### NEW FIELD DISCOVERIES

County	Field Name	Operator	Lease	S-T-R / Qtr	Type	Pay Zn	API Ref
Barber	Sun City NE	Charles N. Griffin	1 Willbanks	23-30s-15W, NW/4	Oil	Viola	15-007-24477
Butler	Elbing West	IGWT Inc	1 S & W	31-23s-4E, NW/4	Oil	Miss	15-015-24201
Cheyenne	Vallin	Arcadian Resources	2-1 Vallin	2-5s-37W, SW/4	Oil	LKC	15-023-21611
Finney	Breyfogle	Raydon Exploration	2-10 Breyfogle	10-21s-31W, SW/4	Oil	Miss	15-055-22591
Gove	Tustin	US Oil Resources	6B-6-1428 Tustin	6-14s-28W, NW/4	Oil	LKC	15-063-22431
Greeley	Second Wind	Murfin Drilling Company	1-2 KB owwo	2-17s-43W, NW/4	Gas	Mrw	15-071-20876-0001
Pratt	Springvale SW	Charles N. Griffin	1 Smith	9-29s-15W, SW/4	Oil	Viola	15-151-22572
Rawlins	Fisher	Downing - Nelson Oil Co.	1-3 Fisher Family	3-5s-36W, SE/4	Oil	Cher	15-153-21312
Scott	Beckley NE	Joe Gerstner Oil	1 Rodenberg	17-18s-31W, NE/4	Oil	Shaw, Pleas	15-171-21310
Scott	Hippopotamus	Abercrombie Energy	1-35 Lamb - Morgan unit	35-20s-31W, SW/4	Oil	Miss	15-171-21312

(continued)  
PAGE 1

## Exploration Highlights & News (con't)

### INFIELD WILDCAT DISCOVERIES

County	Field Name	Operator	Lease	S-T-R/ Otr	Type	Pay Zn	API/ Reason
Hodgeman	Lippoldt SE	American Warrior	1-30 KPB Unit	30-23s-22W, NE/4	Oil	Miss	15-083-22029 / dist
Wichita	Campas SE	Ritchie Exploration	1 McPherson College 4D	4-17s-37W, SE/4	Oil	Marm	15-203-20383 / dist

(Nov. 2, 2023) ..... **Arcadian Resources LLC**, Glen Elder (KS), is producing an undisclosed amount of oil from the Lansing - Kansas City formation at their #2-1 Vallin pool discovery well in the SW/4 of section 2- T2s- R37W, Cheyenne County. The new "Vallin" pool discovery well was drilled to a total depth of 4,982 ft by Double D Drilling KS Rig #1 but is plugged back to 4,938 ft. No completion details have been released by operator. Closest recognized production in the area lies over one mile to the northwest of drill site in the Pianalto South pool, which has produced nearly 178,000 BO from the LKC and Marmaton formations since 1993. Field area is located about seven miles south and five miles east of Bird City, Kansas. (Ref: API 15-023-21611)

(Nov. 2, 2023) ..... **The American Petroleum Institute (API), Washington, D.C., Petroleum Facts - Released October 2023**

- U.S. crude oil production totaled 13.085 mil b/d in September 2023, up by 760,000 b/d from same period in 2022 (+6.2%).
- Alaskan crude oil production of 436,000 b/d accounted for 3.3% of the total crude oil produced by the U.S. in September.
- U.S. natural gas liquids production in September was 6,517,000 b/d, up by 363,000 b/d from same month in 2022 (+5.9%).
- Total U.S. supply of crude oil, natural gas liquids and other liquids in September totaled 20,758,000 b/d, up by 1,140,000 b/d as compared with same month in 2022 (+5.8).
- Total Petroleum products delivered to the domestic market in September was up 331,000 b/d from same month in 2022 to 20,460,000 b/d (+1.6%).
- U.S. Petroleum exports in September totaled 10,423,000 b/d, or 569,000 b/d more than a July 2022 (+5.8%).
- U.S. petroleum trade balance expanded by 141,000 b/d to imply September 2023 net exports of 1,684,000 b/d, compared to net exports of 1,825,000 b/d in September 2022.

(Oct. 26, 2023) ..... **Downing - Nelson Oil Company**, Hays (KS), has discovered oil deposits in the Cherokee formation at a rank wildcat well in Rawlins County, northwest Kansas. The #1-3 Fisher Family is producing an undisclosed amount of crude oil in the SE/4 of section 3- T5s- R36W, about nine miles south and two miles east of McDonald, Kansas. The well was drilled to 4,945 ft by Duke Drilling's Rig #5. Discovery site lies about one and one-quarter miles east of Downing - Nelson's #1-4 Poore, SE/4 of section 4, which has produced nearly 6,000 BO from a Cherokee lime zone at a depth of 4,684 to 4,692 ft. The well established the Poore Field in 2021. Downing - Nelson's new pool has been named "Fisher". (Ref: API 15-153-21312)

(Oct. 12, 2023) ..... **Raydon Exploration, Inc.**, Oklahoma City (OK), has discovered Mississippian oil deposits at a rank wildcat well in Finney County, southwest Kansas. The #2-10 Breyfogle is producing an undisclosed amount of crude oil at site located in the SW/4 of section 10- T21s-R31W, about one mile south and eleven 11 miles east of the town of Friend. The well was drilled to an estimated 5,200 ft by Duke Drilling tools. Closest recognized production in the vicinity of the new find lies over four miles away in the Crist oil field, which has produced oil from the Marmaton formation since 1966. Raydon's new oil field has been named the "Breyfogle" pool. (Ref: API 15-055-225921)

(Oct. 5, 2023) ..... **IGWT, Inc.**, Rose Hill (KS), has discovered new Mississippian oil reserves at the #1 S & W wildcat well spotted in the NW/4 of section 31- T23s- R4E, in Butler County. The new "Elbing West" pool opener was drilled to a loggers total depth of 2522 ft using C & G Drilling tools. Top of the Mississippian formation was found at 2402 ft. Oil comes from perforations shot between 2420 to 2430 ft. Daily potential has not been disclosed. Site lies six miles northeast of the town of Whitewater (KS), or nearly one mile northeast of the Paulson Southeast pool, which has also produced oil from the Mississippian since 1981. (Ref: API 15-015-24201)

(Sept. 21, 2023) ..... **US Oil Resources LLC**, Lakewood (CO), has discovered new Lansing - Kansas City oil reserves at a wildcat well drilled in the NW/4 of section 6- T14s- R28W, in Gove County. The #6B-6-1428 Tustin was drilled to a total depth of 4,630 ft with Duke Drilling tools. No completion details have been released. The well establishes the "Tustin" pool. Field area is located over one mile southeast of the Hoffsmith East pool, which US Oil Resources opened in October, 2018 with three Mississippian oil producers completed for 35 to 45 BOPD each on the Beougher lease in section 36- T13s- R29W. Closest recognized LKC production lies nearly two miles away in the Mabel L West oil field. US Oil Resources new discovery is located six miles south of Gove, Kansas. (Ref: API 15-063-22431)

## Exploration Highlights & News (con't)

(Sept. 14, 2023)..... **New Oil Fields Named in Kansas:** The Kansas Geological Society’s Nomenclature Committee, in association with the Kansas Corporation Commission (KCC) and the Kansas Geological Survey, has recognized and named seven new oil fields and two Infield wildcat discoveries in Kansas at a meeting held in Wichita, Kansas on September 14, 2023.

### NEW FIELD DISCOVERIES

County	Field Name	Operator	Lease	S-T-R/ Otr	Type	Pay Zn	API Ref
Decatur	<b>Fortin</b>	Cobalt Energy LLC	1-3 Fortin	3-3s-28W, SE/4	Oil	LKC	15-039-21294
Graham	<b>Berland South</b>	American Warrior	1-33 Industrial Unit	33-7s-21W, SE/4	Oil	LKC	15-065-24253
Graham	<b>BLT</b>	Cobalt Energy LLC	1-4 BLT	4-10s-22W, SW/4	Oil	LKC	15-065-24255
Graham	<b>Hobbs</b>	Satchell Creek Petroleum	A1-34 Hobbs	34-10s-25W, NW/4	Oil	LKC	15-065-24272
Hodgeman	<b>Marena NE</b>	Triple Crown Operating	1-17 Daryl	17-21s-21W, NE/4	Oil	Miss	15-083-22026
Rawlins	<b>Maggie</b>	Downing - Nelson Oil Co.	1-7 Maggie’s Farm	7-4s-36W, NW/4	Oil	Cher	15-153-21308
Rawlins	<b>House</b>	Downing - Nelson Oil Co.	1-32 House Farms	32-4s-36W, NE/4	Oil	Marm, Cher	15-153-21309

### INFIELD WILDCAT DISCOVERIES

County	Field Name	Operator	Lease	S-T-R/ Otr	Type	Pay Zn	API/ Reason
Wichita	<b>Campas SE</b>	Ritchie Exploration	1 McPherson College 4D	4-17s-37W, SE/4	Oil	Pay not rptd	15-203-20383, Seis
Hodgeman	<b>Jetmore</b>	American Warrior	3-26 Ford Trust	26-22s-24W, SW/4	Oil	Miss	15-083-22027, Seis

(Sept. 7, 2023) .....**Senate Committee confirms the Governor’s appointment of Annie Kuether** to the Kansas Corporation Commission to a four-year term as a Commissioner on the Kansas Corporation Commission (KCC). Kuether’s term will begin immediately and expire on March 15, 2027. A full Senate vote will be taken when the Legislature returns for the 2024 session. The Committee also considered Governor Kelly’s reappointment of Andrew French to a second term, when his first term expires in March 2024. That confirmation was deferred until the full Legislature returns in January. Kuether joins Commissioners Dwight Keen and Andrew French on the three-member board. She replaces Susan Duffy, who did not seek reappointment.

(Aug. 24, 2023) ..... **Cobalt Energy LLC**, Wichita (KS), has established new Lansing - Kansas City oil production at their #1-3 Fortin new pool discovery in Decatur County, northwest Kansas. The wildcat well was drilled to a total depth of 3,944 ft at location in the SE/4 of section 3- T3s- R28W, about four miles east of the town of Oberlin. Completion details are confidential currently. The well was put on pump on June 29, 2023. Closest previous production near the new find lies almost two miles away in the Jorn oil field (LKC, 1966 to present), which has produced over 1.267 million barrels of crude oil from 34 wells over the years. Cobalt’s new pool has been named the “Fortin” pool. (Ref: API 15-039-21294)

(Aug. 17, 2023) .....**Downing - Nelson Oil Company**, Hays (KS), reports the discovery of two new oil fields in Rawlins County, northwest Kansas. First, the #1-7 Maggie’s Farm was drilled in the NW/4 of section 7- T4s- R36W to a total depth of 4,965 ft by Duke Drilling Rig #5. The wildcat well found abundant oil deposits in the Cherokee formation. The new discovery lies over one mile southwest of the one-well Wahrman oil field, which also produced oil from the Cherokee formation in 1985. Completion details are confidential. The new “Maggie” pool is situated about five miles south and two miles west of McDonald, Kansas. (Ref: API 15-153-21308)

In the NE/4 of section 32- T4s- R36W, Downing - Nelson’s #1-32 House Farms is producing an undisclosed amount of crude oil from the Marmaton (Pawnee) and Cherokee formations. Operator bottomed the well at a total depth of 4960 ft (4962 LTD). The well was completed in mid July. Completion details are confidential. Wellsite is located over two miles northeast of multi-pay oil production (Lansing-Kansas City, Marmaton and Cherokee) in the Little Beaver Creek pool, and is eight miles south of McDonald, Kansas. Downing - Nelson’s new discovery has established the “House” oil field. (Ref: API 15-153-21309)