

2nd Hole

H4

P.1

Anderson County, KS Centerville T.S. Bond

Petrol Oil + Gas H4 Bailey-Kreitzer

715' clay and limestone

495 FT FSL 2310 FT FEL Sec 22, T. 21S, R. 21E

Thu June 16, 2005 Drilled and set surface casing

0-7 Clay, black to dark gray to dark brown

7-13 Clay, yellowish brown to dark yellowish brown

13'-15 Shale, yellowish gray, silty

15-16 Shale, light yellowish gray to light gray

16'-18.5' Limestone, light gray, hard at 18'

18.5'-20 Shale, greenish gray to medium gray

20-23' Shale, brownish gray to medium gray

Friday June 17, 2005. using hammer bit

23-32 Shale, medium gray, silty

* 32+25=57

32-42 Shale, medium gray, silty

42'-51' Limestone, light gray

51'-52 Shale, medium light gray, silty

52'-55' Limestone, light gray

55'-68' Shale, medium dark gray, silty

68-76' Limestone, light gray, hard, powders under hammer bit

76'-83' Shale, medium to dark gray, silty

83'-123 Limestone, light gray, occasional shale breccias

WINTERSET

occasional slight oil odor, powders under hammer,
powder & debris

123-129 Shale, dark gray, silty

129-131 Shale, black, hard

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WICHITA, KS

STARK

SLIGHT TO MODERATE

Gas Show

Petrol Oil + Gas H-4 Bailey-Kreidler

247'-282' Sandstone, medium gray, very fine-grained with
black carbonaceous laminae, occasionally olive gray siltstone
nodules, some clayey shale 277-282.

282-297 Shale, medium gray, very silty, with black carbonaceous
laminae

297-303 Shale, medium gray, silty

303-304 Coal

304'-305 Underclay, light gray, soft } extracted but not
305'-307 Shale, medium gray, silty } observed

307-322 Sandstone, light to medium gray, very fine-grained with occasional light olive gray siltstone fragments WALTER JONES

322-326 Shale, medium gray, very silty with siltstone fragments

326-327 Shale, dark gray, silty

327-332 Shale, medium gray, silty

332'-338' Shale, dark gray, silty

338-340 Shale, black, silty

340-341 Coal

VERY SLIGHT GAS SHOW
CARBON

341-342 Underclay light gray, soft

342'-351 Shale, light gray to medium gray towards base, silty

351'-352 Shale, reddish brown, calcareous

352'-357' Limestone, light gray to light olive gray, finely crystalline sandy light greenish gray sandy shale portions 354-357 ALTAMONT WOODWARD

357'-370 Limestone light yellowish brown and light yellowish gray

finely crystalline, hard, dark yellowish brown 362-370

370-371 Shale, dark gray to medium gray, silty

371-372 Shale, light gray, silty

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Petrol Oil + Gas H-4 Baden-Kreidler

372'-382' Sandstone, light gray and light greenish gray,
light gray 377-382, very fine grained. Hard

382'-385 Shale, light gray, slightly sandy

385'-397' Shale, medium gray, silty

397'-397.5 Coal

397.5'-399 Underclay light gray, salt

399-402 Shale, medium gray, silty

402'-412 Sandstone, medium gray, very fine grained, very shaly
405-407, contains abundant black carbonaceous fragments

412-418 Shale, medium gray, silty

418-419 Coal

MODERATE GAS SHOW
MILBERRY

419-420 Underclay light gray, silty, salt

420'-423' Shale, medium gray, silty

423'-441, Limestone, yellowish brown to olive gray, finely crystalline, hard
shaly 432-441.

POWELL - Coal City Ls

441'-443 Shale, medium gray to dark gray, silty

443'-447' Sandstone, medium gray, fine grained

447'-451 Shale, dark gray, silty, sandy 450-451

451'-453 Limestone, olive gray, finely crystalline, very hard

MARK STATION

Check gas test
depth

453'-455 Shale, black, hard tough

GOOD GAS SHOW ANNA

455-455.5 Coal

LEXING

455.5-457 Underclay and shale, medium gray,

457-465 Sandstone, medium gray, very fine-grained, slightly shaly

465'-480 Shale, dark gray, silty

480-480.5 Coal

480.5-481 Underclay

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Alb's

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Petrol. Belt Geo H-4 Bradley-Kretz

481-482 Limestone, olive gray, fairly crystalline, moderate

482-487 Shale, light to medium gray, silty, soft

487-496.5 Sandstone, greenish gray, fine grained, calcareous

Shale, 493-495, with occasional sub-parallel fragments

496.5-507 Shale, medium gray, silty with occasional sub-parallel fragments

507-508 Shale, black

SUMMIT HORIZON

508-512 Limestone, olive gray to medium gray, fairly crystalline, moderate, very hard

512-515.5 Shale, medium gray, silty

515.5-516 Limestone, dark gray, very hard

516-521 Shale, black

EXCELLO } MODERATE
GAS
SAXES
MUCKY

521-522 Coal

522-524 Underclay, light gray

524-531 Shale, medium gray, silty, middle of 524'

531'-537 Shale, dark gray to medium gray, silty

537'-539 Shale, light gray, very sandy

539-552 Sandstone, light to medium gray, very fine

SONICER

grained, calcareous abundant black carbonaceous fragments
occasional point bleeds 539-547, good odor and
abundant point bleeding 547-552

552-557, Sandstone, medium gray, fine grained, abundant

black carbonaceous laminae, strong oil odor and
abundant point bleeding

557-567, Sandstone, olive gray, fine grained, calcareous

fragments and laminae, strong to very strong oil odor
abundant to good point bleeding

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Petrol Oil + Gas H 4. Barclay - Krickehar

597-605 Sandstone, dark gray, fine grained, minor
point bleaching of oil, slight odor

605-607 Shale, medium gray, silty

607-612 Shale, dark gray, silty

612-614 Coal

MODERATE GAS SHOW
Bever

614-617 Underlay to shale, light gray, silty

617-620 Shale, medium gray, silty, tough

620-621 Limestone, light olive gray, hard

Andmore

621-622 Shale, dark gray, silty

622-628 Shale, black

628-629 Coal

CROWEBURG

MODERATE
GAS
SHOWS

629-637 Underlay to shale, light gray, silty

637-642 Shale, light to medium gray, silty, calcareous near base

642-650 Shale, light gray, silty, very sandy

650-654 Shale, medium gray, silty

654-657 Shale, black, very calcareous 656-657

VERY SLIGHT GAS SHOW
Fleming Morgan

657-665 Shale, medium to light gray

665-670 Sandstone, light gray, very fine grained

670-671 Shale, medium gray, silty

671-672 Limestone, light gray

672-672.5 Coal

VERY SLIGHT GAS SHOW
MINERAL

672.5-674 Underlay, light gray, silty

674-677 Shale, medium to light gray

677-680 Shale, medium gray, blocky, calcareous

680-685 Shale, black

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Rebel Oil + Gas 44 Baby-Kristler

685-695 Shale, dark gray, silty

695-703 Shale, black

VERY SLIGHT GAS SHOW
Wear-Pitshong

703-704 Coal

704-706 Underlay, light gray, salt

706-712 Shale, light gray, silty

712-714 Shale, light greenish gray to light gray, silty, sandy

714-727 Shale, medium gray, silty, dark gray, 725-727

727-730 Shale, black

VERY SLIGHT GAS SHOW
"Carrollville" ?

730-731 Coal

731'-732 Shale, light to medium gray

732'-738.5 Shale, black

738.5-739 Coal ?

"Ponca" ?

739-742 Underlay, to Shale, light gray, sandy, salt

742-752 Sandstone, light gray, very fine to fine grained, BARTLESVILLE

Shale, 745-752, shale medium to dark gray, silty

752-757 Shale, medium gray to medium dark gray, silty

757'-762 Shale, light to medium gray, silty

762'-767 Sandstone, greenish gray, very fine-grained

767'-777 Shale, light to medium gray, silty

777-782 Sandstone, light to medium gray, very fine grained

782-786 Shale, medium gray, silty, occasional siderite fragments

786'-790 Shale, dark gray, silty, tough

790-797 Sandstone, medium to dark gray, fine grained, hard

slight oil odor

797-803 Shale, black, occasional siderite fragments

hard, tough

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803-804	Coal	Rowe } MODERATE GAS Neutral } SHOW
804-805	Shale, light gray, soft	
805-806	Coal	
806-807	Undulating, light gray	
807-809	Sandstone, light gray and light greenish gray, fine grained, quartz grains, water	WARNER
809-812	Shale dark gray, silty	RIVERTON SHALE
812-815	Shale, black	
815-819	Coal	U RIVERTON Inconclusive SLIGHT GAS SHOW BAG HAS A HOLE
819-822	Shale, light to medium gray	
822-827	Shale, dark gray, silty	
827-840	Shale, black, silty, some interbedded light gray very silty shale laminae	{ 827-832 SLIGHT GAS SHOW 832-840 VERY SLIGHT GAS SHOW IN RIVERTON
840-841	Coal	
841-845	Shale, medium gray, silty	
845-850	Sandstone, medium gray very fine-grained, pebbly	
850-865	Shale, black, silty, trash, hard with some interbedded light gray very silty shale laminae	
865-874	Sandstone, dark gray, very fine to fine grained, contains abundant black carbonaceous fragments	
874-876	Shale, black	
876-877	Coal	MODERATE GAS SHOW RIVERTON
877-879	Shale, black	
879-885	Sandstone, yellowish brown to light gray, no odor occasional gas bubble	BURGESS

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Petrol Oil + Gas H4 Bailey-Kreitler

885-905 Chert, white, pink, yellowish brown, waxy
yellow, occasional medium gray sandstone
fragments, pebbles

905-907 Limestone, light olive gray, finely crystalline, nodular

907 TD Monday June 20, 2005

De Sult, Geologist

June 24, 2005

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Petrol Al + Gas H-4 Bailey-Kreidler

- 131'-133 Shale, medium gray to greenish gray.
- 133-147 • Limestone, light gray, pebbles under hammer. DETHAMP GULL
- 147-151 Shale, dark gray, silty. MODERATE GAS SHOW
- 151-153 Shale, black, hard. HUSHACKNEY
- 153-155 Shale, medium gray, silty.
- 155-164 Limestone, light gray, hard. 11522410
- 164'-166 Shale, medium gray, silty.
- 166'-172 Limestone, light gray, fairly crystalline.
Shale 167-172 with light greenish gray calcareous shale breccia.
- 172-175 Shale, greenish gray, silty.
- 175'-181' Sandstone, medium to light gray, tough, hard, fine grained.
slight oil odor 175-177', shaly 180-181'. (water at 175')
- 181'-187' Shale, medium gray, dark gray 182-187, silty.
- 187'-190 Sandstone, medium gray, fine-grained.
- 190'-200 Shale, medium gray, dark gray 192-197, silty,
Some interbedded sandstone 197-200.
- 200'-207 Sandstone, medium gray, fine grained, rounded quartz grains, damp.
- 207-212 Shale, medium gray to greenish gray, silty, sandy, poor sampler.
- 212-217 Shale, medium to dark gray, silty, poor sampler.
- 217-232 Sandstone, medium gray, fine-grained, with black carbonaceous laminae, poor samples. added water to drill string at 221.
- 232-247 Shale, medium gray, silty, interbedded with siltstone and sandstone, medium gray, very fine grained, poor samples.

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