

WELL NAME: Evans 'E' #4 PTD: 5300'
 AREA: Stockholm SW ELEVATIONS: 3910' GL
 LOCATION: Section 11, T16S-R43W CONTRACTOR: J.W. Gibson Well Service
 COUNTY: Greeley AFE NUMBER: 820691
 STATE: Kansas LSE NUMBER: 93466
 FOOTAGE: 2310' FSL & 990' FEL TXO WI: 75%

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 Calgary, Alberta
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TIGHT HOLE

State Geological Survey
MICHINA BRANCH

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4/26/82 MI RU RT. DW: 4000. CW: 4000.

4/27/82 670' (670'), DD 1, drlg. Sh. 9.4, 38. Spud 12-1/4" hole @ 6 PM 4/26/82.
 Welded leak in suction line of pump & work on draw works. DW: 11,699. CW: 15,699.

4/28/82 731' (61'), DD 2, WOC. Sh. Native. Finish 12-1/4" hole @ 7:30 AM. Ran
 Dowell guide shoe 1' long, 17 jts 8-5/8", 24#, K-55, ST&C range 3 cond A csg
 711.02'. Set @ 723' & cmt w/ 350 sxs of lite 65/35 poz w/ 1/4#/#/sx flocele &
 2% CaCl₂ & 150 sxs Cl 'H' w/ 1/4#/#/sx flocele & 3% CaCl₂. PD @ 1:45 PM 4/27/82.
 Cmt circ. Cmt fell back 30' below GL. Pump 100 sxs Cl 'H' 1/4#/#/sx flocele 3%
 CaCl₂ dn 1" pipe. Finished @ 6:30 AM 4/28/82. 1° @ 731'. DW: 21,399. CW:
 37,098.

4/29/82 1772' (1041'), DD 3, drlg. Sh. 9.2, 30. Lost 150 bbls @ 1430'. Build volume
 w/ 12#/#/bbl LCM while regaining circ. Resume drlg. DW: 16,552. CW: 53,650.

4/30/82 2550' (778'), DD 4, drlg. Sh. Native. 1-3/4° @ 1825'. DW: 11,366. CW:
 56,949.

5/01/82 3500' (950'), DD 5, drlg. Sd/sh. Native. DW: 14,258. CW: 71,207.

5/02/82 4145' (645'), DD 6, drlg. Im/sh. 9.3, 39, 18, 9.5. DW: 14,282. CW: 85,489.

5/03/82 4560' (415'), DD 7, drlg. Im/sh. 9.4, 42, 10.4, 10. 1° @ 4460'. DW: 10,360.
 CW: 95,849.

TXO

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- *****
- 5/04/82 4895' (335'), DD 8, drlg. Lm/sh. 9.2, 44, 12.6, 10. DW: 8523. CW: 104,372.
 - 5/05/82 5194' (299'), DD 9, rig repair. Lm/sh. 9.2, 61, 9.8, 10. Atoka 4888', Morrow 5054'. DB: 5148-50', 4"-1"-4": 5160-64', 4"-1"-4": 5170-78', 4"-1"-4": 5184-85', 4"-1"-4". Circ @ 5194' for 1½ hrs. Prep to short trip for DST #1 when rotary table went out. Pulled up into surf pipe to repair rotary table. DW: 6902. CW: 111,274.
 - 5/06/82 5194' (0'), DD 10, TIH w/ bit. Morrow Fm. 9, 60, 9.8, 10. 4-1/4° @ 5194'. DST #1 from 5148-5194', Morrow Fm. IFP, TO w/ strong blow off btm of bucket in 2", GIS in 25". FFP, TO w/ strong blow on 1/8" orifice, 10" - 1# - 2 MCFD, 20" - 2# - 3.92 MCFD, 30" - 2.5# - 4.42 MCFD, 40" - 4# - 5.64 MCFD, 50" - 4.5# - 6.01 MCFD, 60" - 5# - 6.39 MCFD. Rec 1670' GCO, 30' SO&GCM, 30' wtr. Top Rw=.70 @ 50F, C1- 12,000 ppm. Btm Rw=.70 @ 50F, C1- 12,000 ppm. Mud Rw=.55 @ 65F, C1- 12,200 ppm. IHHP 2632#, 30" IFP 328/456#, 60" ISIP 729#, 60" FFP 525/656#, 120" FSIP 729#, FHHP 2596#, BHT 113F. BHSC @ 50#, 1250 cc oil, 200 cc wtr, .094 cu ft gas. API gravity 35° @ 60F. Rw=.70 @ 50F, C1- 12,000 ppm. DW: 8281. CW: 119,555.
 - 5/07/82 5362' (168'), DD 11, RU loggers. Lm. 9.1, 72, 9.6, 10. 4-3/4° @ 5362'. TD 7-7/8" hole @ 9 PM 5/06/82. DW: 7114. CW: 126,469.
 - 5/08/82 5362' (0'), running csg. Finish logging @ 7 PM 5/07/82. Unable to run Dipmeter. DW: 20,073. CW: 146,542.
 - 5/09/82 5362' (0'), ran 4-1/2" Dowell cmt guide shoe, 1 jt 4-1/2" OD, 8rd, 10.5#, K-55, ST&C csg 28.45'. 1 jt 4-1/2" Dowell insert float w/ fill-up attachment, 132 jts 4-1/2" OD, 10.5#, K-55 & J-55, ST&C, R-2&3 cond A&B, 5347.49'. Circ hole w/ 300 BM mixed w/ 110 gal Corpac. Gmt w/ 200 sxs 50/50 poz, 5% CaCl2, 3/4% TIC. Dspl w/ 2% KCL wtr. BP & checked float. Held OK. PD @ 12:45 PM 5/08/82. Set 4-1/2" csg slips & RR @ 1:45 PM 5/08/82. Shoe @ 5362'. Float @ 5328.49'. DW: 39,070. CW: 185,612.
 - 5/11/82 MIRUCU. Unload tbg.
 - 5/12/82 5328' PBTD, csg swab FL to 2750'. RU McCullough & ran GR-CORR log from 5284-4280'. LTD 5288'. Perf Keyes Fm from 5232-48' (16'), 2 JSPF, 34 holes. RD McCullough. Ran csg swab. FL @ 2750'. Lowered FL to 5280'. Swab from 5280' for 2 hrs. Rec 250' wtr/run w/ 2 runs/hr. Rec 16 bbls total fm fluid. Swab hanging in perfs. Shut csg in & SDFN. Wtr smpl: C1- 25,000 ppm; Ca 1880 ppm; ph 6.5; Rw=.184 @ 75F. DW: 24,861. CW: 210,473.
 - 5/13/82 5250' PBTD, RIH w/ swab. FL @ 3000'. Made 3 swab runs, lowered FL to 4600'. Rec 26 BW. LD swab. RU McCullough. RIH & set 4-1/2" Baker CIBP @ 5250'. Dumped 1 sx cmt on CIBP. Perf Morrow Fm from 5148-67' @ 2 JSPF (40 holes). RD McCullough. RIH w/ 1 jt 2-3/8" Od EUE 8rd 4.7# J-55 R-2 cond "B" tbg (31.05'), 1 2-3/8" OD EUE 8rd J-55 perf nipple (3.10'); 1 2-3/8" x 25/32 SSN (1.10'), 2 jts 2-3/8" OD EUE 8rd 4.7# J-55 R-2 cond "B" tbg (62.70'), 1 4-1/2" Baker Model "B" tbg anchor catcher w/ 40,000# shear (3.13'), & 166 jts 2-3/8" OD EUE 8rd J-55 R-2 cond "B" tbg (5094.39 Mud anchor @ 5203'. Perf nipple @ 5171.95' to 5168.85'. SSN @ 5167.75'. Anchor @ 5401.92' set w/ 18,000# tension. RU & ran swab. FL @ 3300'. Swab for 1-1/2 hrs. Lowered FL to 4000'. Slight show of gas & oil. SI tbg & SDFN. DW: 6754. CW: 217,227.
 - 5/14/82 5250' PBTD, CP 10#, TP 20#. Ran swab, FL @ 3000'. Swab for 6-1/2 hrs. Lowered FL to 4000'. Rec 35 bbls 95% oil & 5% wtr.w/ moderate amount of gas. SDFD and prep to acidize. DW: 2002. CW: 219,229.

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5/15/82 5250' PBTD, CP 20#, TP 75#. Ran swab. FL @ 3000'. POOH w/ 800' oil. RU Haliburton. Spot acid on perfs. Treat w/ 2000 gal 7-1/2% pad acid w/ 4 gal HAI-55, 5 gal frac flow, & 4 gal clay-stay. Brk dn press 2000#. Treated 1st 1000 gal @ 1950#, 1/2 BPM. Last 1000 gal @ 1950#, 1-1/2 BPM. Dspl w/ 54 bbls 2% KCL w/ 1-1/2 gal/1000 gal Morflow. ISIP 1500#, 5 min 600#, 10 min 200#, 15 min 0#. RD Haliburton. RU swab. Ran swab. FL @ 1500'. Swab for 6-1/2 hrs. Lowered FL to 4500'. Rec 83 bbls. Last 20 bbls 80% oil. Last 10 bbls 100% oil. SDFD. DW: 4630. CW: 223,859.

5/16/82 5250' PBTD, CP 20#, TP 0#. Ran swab. FL @ 2500'. Swab for 2-1/2 hrs. Lowered FL to 4500'. Rec 26 bbls gassy oil. RIH w/ pump & rods. RR @ 5:30 PM 5/15/82. Drop from report until first production. DW: 2764. CW: 226,623.

5/29/82 5250' PBTD, DATE OF FIRST PRODUCTION: pumped 100 BO & 0 BW in 23 hrs. 64" SL & 10 SPM. FINAL REPORT !!!

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