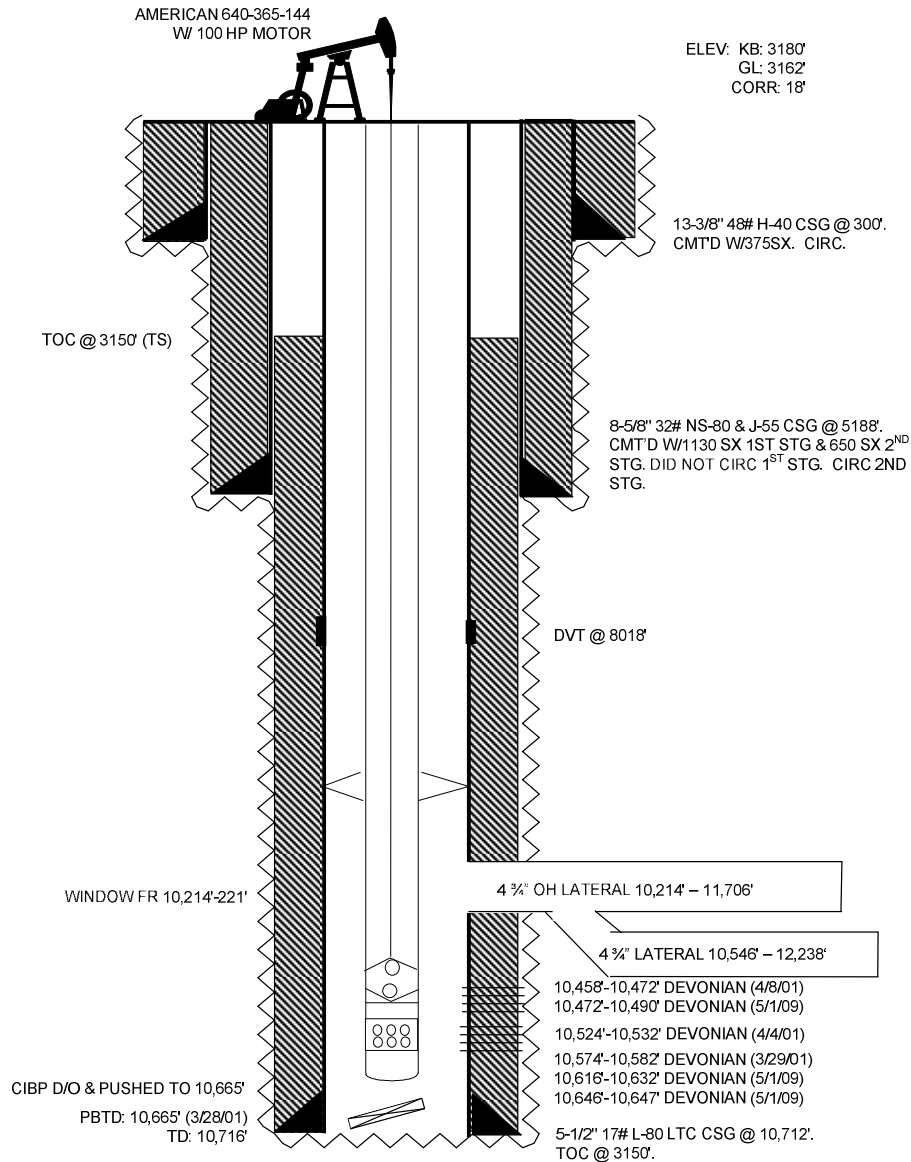


UNIV BLK 9 7L FKA TEXAS L #7H WELLBORE DIAGRAM



DATA

LOCATION: 1950' FSL & 600 FEL OF SEC 11, BLK 9, ULS **COUNTY/STATE:** ANDREWS CO., TX
FIELD: UNIVERSITY BLOCK 9 (DEVONIAN)
FORMATION: DEVONIAN
API#: 42-003-38716 **XTO WELL ID#:** 1414 **DRLG PERMIT FOR LATERAL:** #623691
SPUD DATE: 01/03/01
PRODUCTION METHOD: ROD PUMP.
TUBING STRING (2/15/10): 318 JTS 2 7/8" L80 8RD TBG, TAC, 14 JTS 2 7/8" L80 8RD TBG, 1 JT 2 7/8" J55 8RD TBG W/ ENDURALLOY, 2 7/8" SN, 2 7/8" X 4' PS, 2 7/8" L80 8RD BPMA, LANDED @ 10,628', SN @ 10,591', TAC @ 10,113'.
ROD STRING (2/18/10): 1 1/2" X 26' PR W/ 16' LINER, 3' X 1 1/4" FG PONY ROD, 160 - 1 1/4" FIBERCOM FG RODS, 116 - 1" N90 RODS, 52 - 7/8" N90 RODS, 12 - 1 1/2" WT BARS, 7/8" X 4' GUIDED SUB, 3/4" X 26K ST.
PUMP (2/18/10): 2 1/2" X 1 1/2" X 30' RXBC PUMP W/ 1" X 16" GA.

HISTORY

01/04/01: SPUD WELL. SET 13-3/8", 48#, H-40 CSG @ 300'. CMT'D W/375SX. CIRC.
01/13/01: SET 8-5/8", 32#, MAV-80 & J-55 CSG @ 5188'. DVT @ 1,751'. 1ST STG 1130SX. DID NOT CIRC BETWEEN STGS. 2ND STG 650SX. CIRC.
01/16/01: WTR FLOW @ 6,218', 100 GPM, 40 PPM H2S.
01/21/01: DRLG BRK FR/8,104'-8,116'. GAS & OIL TO SURF.
01/27/01: SHOW @ 9,210'-9,230'.
02/04/01: DRLD FR/10,441'-10,498'. LOST RTNS. STUCK PIPE.
02/18/01: FISHED DP TO 9,676'. SEE WELL FILE FOR MORE DETAIL ON FISHING.
02/19/01: WASHED TO 9,760'.
02/20/01: SPOTTED 200SX SIDETRACK PLUG.
02/21/01: DRESSED OFF PLUG. DRLD CMT FR/9,055'-9,193'. RAN GYRO SURVEY.
02/22/01: DRLD FR/9,193'-9,200'.
02/23/01: KICKED OFF OF SIDETRACK PLUG.
03/06/01: DRLD FR/9,224'-10,716'.
03/07/01: RAN MICROLOG FR/5,188'-10,712'. RAN GR/CNL TO SURF. RAN FMI FR/10,325'-10,712' & FR/8,350'-9,350'.
03/08/01: SET 5-1/2", 17#, L-80 CSG @ 10,712'. DVT @ 8,018'. 1ST STG 750SX. CIRC BETWEEN STGS. 2ND STG 640SX. TOC 3,150'.
03/28/01: DO DVT & CMT FR/10,579'-10,665'.
03/29/01: RAN USIT/CBL FR/7,700'-9,350' (PENN, WC, DVT) & 10,350'-10,665' (DEV). **PERF'D DEV 1 JSPF FR/10,574'-10,582'.** BFL SURF. S. 0 BO, 39 BW, 2 HRS. LAST HR 18 BW. FFL 7,800'.
03/30/01: **A. 10,574'-10,582' W/250 GALS 15% HCL @ 0.5 BPM & 2,250 PSIG.** ISIP 2,170 PSIG, 5" SIP 1,970 PSIG, 10" SIP 1,680 PSIG, 15" SIP 1,440 PSIG. 70 BLWTR. BFL 1,800'. S. 0 BO, 57 BLW, 4 HRS. 13 BLWTR. LAST HR 9 BW. FFL 10,000'.
03/31/01: SITP 20 PSIG. BFL 8,800'. S. 2 BO, 13 BLW, 2 BW, 6 HRS. 2 BWOL. LAST HR NO REC. **A. 10,574'-10,582' W/750 GALS 15% HCL @ 2.1 BPM ON VAC.**
04/01/01: SITP VAC. BFL 7,000'. S. 12 BO, 81 BLW, 7 HRS. 5 BLWTR. LAST HR 2 BO & 10 BW W/FFL 7,000'.
04/03/01: SITP 100 PSIG. BFL 7,000'. S. 16 BO, 5 BLW, 72 BW, 7 HRS. 72 BWOL. LAST HR 2 BO & 10 BW. FFL 7,000'.

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04/04/01: PERF'D DEV 2 JSPF FR/10,524'-10,532'. S. 0 BO, 33 BLW, 4 HRS. 7 BLWTR. LAST HR NO REC.

04/05/01: SITP 0 PSIG. BFL 10,478'. NO REC. **A. 10,524'-10,532' W/250 GALS 15% HCL @ 0.3 BPM & 2,750 PSIG. PRESS BROKE TO VAC. ISIP VAC. 65 BLWTR. BFL 7,000'. S. 2 BO, 61 BLW, 5 HRS. 4 BLWTR. LAST HR 1 BO & 11 BW. FFL 7,000'.**

04/06/01: SITP 40 PSIG. BFL 7,000'. S. 13 BO, 4 BLW, 115 BW, 10 HRS. 115 BWOL. LAST HR 1 BO & 11 BW. FFL 7,000'.

04/07/01: SITP 60 PSIG. BFL 7,000'. S. 8 BO, 70 BW, 6 HRS. 185 BWOL.

04/08/01: PERF'D DEV 2 JSPF FR/10,458'-10,472'. BFL SURF. 65 BLWTR. S. 0 BO, 54 BLW, 6 HRS. 11 BLWTR. LAST HR NO REC.

04/10/01: SITP 0 PSIG. **A. 10,458'-10,472' W/250 GALS 15% HCL @ 0.3 BPM & 3,500 PSIG. ISIP 3,750 PSIG. 5" SIP 3,050 PSIG. 10" SIP 2,400 PSIG. 15" SIP 2,140 PSIG. 81 BLWTR. BLF 6,700'. S. 2 BO, 52 BLW, 4 HRS. 29 BLWTR. LAST HR 1 BO & 14 BW. FFL 7,000'.**

04/11/01: SITP 30 PSIG. BFL 7,000'. S. 10 BO, 29 BLW, 84 BW, 10 HRS. 84 BWOL. LAST HR 2 BO & 10 BW. FFL 7,000'.

04/12/01: SITP 30 PSIG. BFL 7,000'. S. 13 BO, 119 BW, 10 HRS. 203 BWOL. LAST HR 2 BO & 13 BW. FFL 7,000'.

04/13/01: SITP 30 PSIG. BFL 7,000'. S. 9 BO, 81 BW, 10 HRS. 284 BWOL. LAST HR 1 BO & 11 BW. FFL 7,000'.

04/14/01: RAN TD650 SUB PMP. **PWO SUB.**

04/16/01: P. 24 BO, 725 BW, 14 MCF, 24 HRS.

04/19/01: P. 33 BO, 678 BW, 18 MCF, 24 HRS. FL 3,318' API.

09/12/01: **UPSIZE SUB.** RAN TD1300 SUB PMP.

11/02/01: INST SWITCHBOARD.

01/27/02: **DWNSIZED SUB.** RAN TD 650.

02/02/02: P. 26 BO, 772 BW, 19 MCF, 24 HRS.

05/21/02: INST VSD UNIT.

09/23/02: REPL 350 KVA W/200 KVA VSD UNIT.

04/22/03: **LWRD PMP 321'.**

04/27/03: P. 15 BO, 558 BW, 7 MCF, 24 HRS.

04/30/03: P. 12 BO, 574 BW, 11 MCF, 24 HRS.

04/23/04: P. 11 BO, 512 BW, 8 MCF, 24 HRS.

06/17/05: ESP DN, SUSPECT TWISTED SHAFT.

06/21/05: **TOH W/ SUB PUMP, FLANGE UP WELLHEAD W/ 1 JT IN WELLBORE. SI.**

08/17/06: SCIENTIFIC DRLG RUN GYRO TO 10,677'. LEAVE WELL SI.

10/21/06: SET CIBP @ 10,225' & WHIPSTOCK FR 10,214' – 10,225', **CUT WINDOW IN 5 1/2" CSG 10,214' – 10,221', BEGIN BLDG CURVE.**

11/05/06: **TD 4 3/4" LATERAL @ 11,706', REAM & WASH ENTIRE LATERAL, PUMP POLYMER SWEEPS, RLSE RIG.**

12/30/06: TIH W/ OH PACKERS & PORTED SUBS ON 3 1/2" WS. EOT @ 11,635'.

01/03/07: **ACID FRAC LATERAL 11,473'-11,706' W/ 13,800G SXE, 4,700G VDA & 2,300G 15% HCL @ 17.2 BPM @ 5,898#, ISIP 0#, ACID FRAC 11,216'-11,473' W/ 15,000G SXE, 5,000G VDA & 2,500G 15% HCL @ 19.8 BPM @ 5,365#, ISIP 0#, ACID FRAC 10,962'-11,216' W/ 15,000G SXE, 5,000G VDA & 2,500G 15% HCL @ 21.7 BPM @ 4,760#, ISIP 0#, ACID FRAC 10,706'-10,962' W/ 15,000G SXE, 5,000G VDA & 2,500G 15% HCL @ 22.6 BPM @ 4,774#, ISIP 0#, 3,980 BLWTR & 420 BLOTR, TOH W/ WS & BHA.**

01/09/07: **ATTEMPT TO HOOK ON WHIPSTOCK WITH NO LUCK, FISHERMAN SAYS WHEN TIH W/ MILL TO CUT WINDOW IN CSG THAT DRILL STRING & MILL WAS DROPPED ON TOP OF WHIPSTOCK POSSIBLY DAMAGING SLOT.**

01/10/07: TIH W/ CENTRILIFT SUB PUMP EQUIP, RWTP.

02/09/07: DN ON HI MTR TEMP, CL TECH ADJUST SP'S & RWTP.

03/01/07: DN ON UL, INCR IDLE TIME, SET FREQ @ 58 HZ, SET UL @ 115A, RWTP.

03/09/07: TOH W/ ESP, TIH & RETRIEVE WHIPSTOCK FR 10,225' & TOH, TIH & **D/O CIBP FR 10,225' & PUSH TO PBTD @ 10,665',** TOH W/ BIT.

03/15/07: TIH W/ SUB PUMP EQUIP, RWTP.

03/23/07: P. 256 BO, 231 BW & 114 MCF, BHP 414 PSI.

03/27/07: WELL CYCLING, SET UL TO 0A, HI TEMP SD TO 270° & LOWER I-LIMIT SP TO 135A.

04/14/07: WELL RUNNING BUT NO FLUID AT SURF, REV ROTATION, THEN REV BACK TO NORMAL, INCR TP TO 575#, LEAVE WELL RUNNING.

04/18/07: TOH W/ SUB PUMP EQUIP, INSPECT & REPAIR EQUIP, RWTP.

07/18/07: TOH W/ SUB PUMP, TIH W/ ROD PUMP, MI & SET AMERICAN 640 PU FR UNIV 198 #10, INSTALL POC, RWTP RUNNING 9.9 SPM W/ 144" SL, **CONVERT FR SUB PUMP TO ROD PUMP.**

01/01/09: **WELLNAME CHANGED FR TEXAS L # 7H TO UNIVERSITY BLOCK 9 7L.**

01/22/09: REPL TAIL & SADDLE BRG'S ON PMP'G UNIT.

04/30/09: TOH W/ RODS & TBG, **PERF DEVONIAN 10,472-490', 10,616-632' & 10,646-647' W/ 1 SPF,** TIH W/ PEAK PKR ASSY ON 3 1/2" WS.

05/07/09: **A. PERFS 10,616-647' W/ 11,400G SXE & 5,700G 15% HCL, ISIP VAC, A. PERFS 10,574-582' W/ 6,000G SXE & 3,000G 15% HCL, ISIP VAC, A. PERFS 10,524-532' W/ 12,000G SXE & 6,000G 15% HCL, ISIP VAC, A. PERFS 10,458-490' W/ 14,400G SXE & 7,200G 15% HCL, ISIP VAC, TOH W/ WS & BHA.**

05/12/09: TIH W/ PROD TBG, RU SWAB, IFL @ 10,100', REC 52 BO & 4 BW, FFL @ 10,300'.

05/13/09: TIH W/ ROD PUMP EQUIP, RWTP. P. 110 BO, 118 BW & 71 MCF (5/17/09).

11/19/09: POSSIBLE STUCK PUMP, TOH W/ RODS & TBG, TIH & SET RBP @ 10,175', TEST CSG FR SURF TO 10,175' TO 500# OK, RUN CBL FR 10,175-9,000', TOH W/ RBP, LEAVE WELL SI.

01/08/10: RU HORIZONTAL RIG, **TIH W/ 4 3/4" BIT INTO HORIZONTAL LATERAL, KICK OFF @ 10,546' W/ BIT & START NEW 4 3/4" LATERAL, AZIMUTH OF OLD LATERAL WAS 158° TO 165°, NEW LATERAL AZIMUTH IS 135°-140°.**

01/14/10: **TD 2ND LATERAL @ 12,238', REAM LATERAL, RD.**

01/25/10: TIH W/ 4 1/4" SWAGE & 4 3/4" MILL, TAB PBTD IN VERTICAL HOLE @ 10,658', PU BHA, WORK INTO LATERAL & TAG END OF LATERAL @ 12,242', TOH, TIH W/ TANDEM 4 3/4" MILLS, TAG PBTD & END OF LATERAL, TOH W/ BHA, TIH W/ PKR ASSY ON 3 1/2" WS.

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02/05/10: A. LATERAL 12,020-12,238' W/ 13,000G SXE & 7,000G 15% HCL, A. 11,827-12,020' W/ 12,000G SXE & 6,000G 15% HCL, A. 11,634-11,827' W/ 12,000G SXE & 6,000G 15% HCL, A. 11,472-11,634' W/ 10,000G SXE & 5,000G 15% HCL, A. 11,310-11,472' W/ 10,000G SXE & 5,000G 15% HCL, A. 11,148-11,310' W/ 10,000G SXE & 5,000G 15% HCL, A. 10,986-11,148' W/ 10,000G SXE & 5,000G 15% HCL, A. 10,824-10,986' W/ 10,000G SXE & 5,000G 15% HCL, A. 10,662-10,824' W/ 10,000G SXE & 5,000G 15% HCL, TOH W/ WS & PKR ASSY.

02/08/10: TIH W/ 4 1/4" SWAGE, WORK INTO NEW LATERAL TO 11,793', TOH, TIH W/ SAME BHA, TAG PBTD IN VERTICAL HOLE 10,658', PUH TO WINDOW, WORK INTO LATERAL, WORK TIGHT SPOT @ 11,085', TAG END OF ORIGINAL LATERAL @ 11,707', TOH W/ BHA, TIH W/ PROD TBG & RODS, RWTP RUNNING 9.8 SPM W/ 144" SL.