

POGO UNIVERSITY 20-12 #1  
1320' FNL & 1320' FWL  
Section 12, Block 20, ULS  
Winkler County, Texas  
API #: 42-495-32488  
Pogo WI: 43.75%

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KB: 3477' KB  
PTD: 8150'

P: 2BS 10310-10354' <sup>scsd</sup>  
P: 3BS 11700-11806'

STIMULATE 2BS PERFS  
AFE Gross \$91,200

5/07/97 28 BO, 17 BW, 55 mcf  
5/08/97 28 BO, 15 BW, 55 mcf  
5/09/97 43 BO, 47 BW, 55 mcf

5/10/97 TD 12002' BP 11512' P:3BS,2BS. PO: Work overshot free.

Clean out sand - start swab. SICP - 700# - T.P. = 70#. Fluid @ surf on csg. Pump 180 bbls 10# brine D.C. NDTREE - NUBOP. Tbg stuck. Slight movement, lay down 1 jt 2 1/4 tbg. Stuck @ 11,440'. Work free. TOH w/60 jts to 9600'. SION.

Daily Cost: \$2,230

Cum Cost: \$53,552

5/11/97 TD 12002' BP 11512' P:3BS,2BS. PO: Retrieve pkr.

Finish TOH w/tbg & 4 1/2" cut lip guide. Scale on bottom 6 jts tbg. TIH w/ret head - bumper sub - jars - 4 x 3 1/2 D.C.'s - 2 1/4 tbg to 11,470'. Latch onto pkr. Release & jar pkr loose. TOH to 9600'. SION.

Daily Cost: \$3,430

Cum Cost: \$56,982

5/12/97 TD 12002' BP 11512' P:3BS,2BS. PO: Put well on production.

Finish TOH. Lay down D.C.'s & jars. REcover Uni VI w/plug & drag spring. SION.

Daily Cost: \$750

Cum Cost: \$57,732

5/13/97 TD 12002' CIBP 10550' P:3BS,2BS. PO: Sqz perfs 10310-10354'.

SICP 500 PSI. Set 5 1/2" CIBP @ 10550', set RBP. Est inj rate 1400 PSI @ 2 BPM. TOH tbg. SDFN.

Daily Cost: \$2,970

Cum Cost: \$60,702

5/14/97 TD 12002' CIBP 10550' P:3BS,2BS. PO: Prep to sqz perfs.

SICP 900 PSI. Test tbg to 5000 PSI. SDFN.

Daily Cost: \$904

Cum Cost: \$61,606

5/15/97 TD 12002' CIBP 10550' P:3BS. PO: TOH w/ pkr.

SICP 0, SITP 0. Open bypass on pkr @ 10100', sqz perfs 10310-10354'; min 650 PSI, max 2500 PSI; ISIP 2000 PSI. SDFN.

Daily Cost: \$7,050

Cum Cost: \$68,656

5/16/97 TD 12002' CIBP 10550' P:3BS. PO: Dr1g cmt.

SITP sl vac, SICP 0. Tag cmt @ 10150', dr1 to 10280', cmt soft. SDFN.

Daily Cost: \$3,410

Cum Cost: \$72,066

5/17/97 TD 12002' P:3BS\*. PO: RIH pump & rods.

Dr1 cmt 10280-10370', test perfs 11700-11806' to 1500 PSI. Dr1 CIBP @ 10550', tag sd 11810'.

Daily Cost: \$2,400

Cum Cost: \$74,466

JUN 5 1997

## LANDS

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POGO UNIVERSITY 20-12 #1  
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 Section 12, Block 20, ULS  
 Winkler County, Texas  
 API #: 42-495-32488  
 Pogo WI: 43.75%

KB: 3477' KB  
 PTD: 8150'

P: 2BS 10310-10354' <sup>sqrd</sup>  
 P: 3BS 11700-11806'

STIMULATE 2BS PERFS  
 AFE Gross \$91,200

5/07/97 28 BO, 17 BW, 55 mcf  
 5/08/97 28 BO, 15 BW, 55 mcf  
 5/09/97 43 BO, 47 BW, 55 mcf

5/18/97 TD 12002' PBD 11810' P:3BS\*. PO: Hang well on.

Wash sd 11810-11933' PBD. TIH prod tbg Assy, EOT 11620'. RIH pump & rods.

Daily Cost: \$2,580

Cum Cost: \$77,046

5/19/97 TD 12002' PBD 11810' P:3BS\*. PO: Well on production.

Finish RIH rods. Well on production 1700 hrs 5/18/97; short 310 BLW.

Daily Cost: \$4,930

Cum Cost: \$81,976

5/20/97	TD 12002' PBD 11810' P:3BS*	14½ hrs - Pmpd	0 BO, 149 BW,	0 mcf.
5/21/97	TD 12002' PBD 11810' P:3BS*	24 hrs - Pmpd	11 BO, 60 BW,	90 mcf.
5/22/97	TD 12002' PBD 11810' P:3BS*	24 hrs - Pmpd	66 BO, 74 BW,	115 mcf.
5/23/97	TD 12002' PBD 11810' P:3BS*	24 hrs - Pmpd	83 BO, 64 BW,	115 mcf.
5/24/97	TD 12002' PBD 11810' P:3BS*	24 hrs - Pmpd	93 BO, 74 BW,	115 mcf.
5/24/97	TD 12002' PBD 11810' P:3BS*	24 hrs - Pmpd	94 BO, 76 BW,	115 mcf.
5/24/97	TD 12002' PBD 11810' P:3BS*	24 hrs - Pmpd	94 BO, 62 BW,	115 mcf.
5/24/97	TD 12002' PBD 11810' P:3BS*	24 hrs - Pmpd	94 BO, 73 BW,	115 mcf.
5/28/97	TD 12002' PBD 11810' P:3BS*	24 hrs - Pmpd	100 BO, 86 BW,	115 mcf.
5/29/97	TD 12002' PBD 11810' P:3BS*	24 hrs - Pmpd	91 BO, 80 BW,	115 mcf.
5/30/97	TD 12002' PBD 11810' P:3BS*	24 hrs - Pmpd	88 BO, 76 BW,	115 mcf.

FINAL REPORT.

5/97  
Daily  
Report

DAILY DRILLING REPORT

WELL UNIVERSITY 20-12-1 DATE 5-13-97

TD 12,002' PBD 10,550' DRLG. HRS. FOOTAGE FORMATION

BIT NO. SIZE MAKE/TYPE DEPTH IN DEPTH OUT

FTG HRS WOB RPM JETS GRADE T B

PERFS: 10,310'-10,354' (CIBPO 10,550') 11,700'-11,806'

BIT NO. SIZE MAKE/TYPE DEPTH IN DEPTH OUT

FTG HRS WOB RPM JETS GRADE T B

PUMP SIZE SPM PRESSURE

DEFLECTION SURVEY AT

MUD WT VIS W.L. FC PH CL

SOLIDS OIL

LAST CSG STRING: SIZE SEAT HOLE SIZE

DAILY COST - WELL \$ 2970.<sup>00</sup> CUMULATIVE COST - WELL \$ 9380.<sup>00</sup>  
MUD \$ MUD \$

PRESENT OPERATIONS

TIH 7/5 1/2" HOELH - SQUARE 10,310-10,354'

REMARKS  
SICP: 500\*  
TIH 7/ TAG SET 5 1/2" CIBP - 2 3/8 TBG TO 10,550. SET  
RBP. EST INS RATE 1400\* @ 2.0 RPM. TIH 7/ TBG.  
SLOW.

Pool Wsu: 1470.<sup>00</sup>  
CIBP: 850.<sup>00</sup>  
WTR: 450.<sup>00</sup>  
SUPV: 200.<sup>00</sup>  
= 2970.<sup>00</sup>

- CREW
- DRILLER
- FOREMAN
- WTRMAN
- FIREMAN
- FLRMAN
- FLRMAN
- FLRMAN
- FLRMAN
- FLRMAN
- FLRMAN

DRILLING DAYS PT COMPLETION DAYS



LOGO  
DAILY DRILLING REPORT

Daily  
Report

WELL UNIVERSITY 20-12-1 DATE 5-14-97

TD 12,002' PBTD 10,550' DRLG. HRS. FOOTAGE FORMATION

BIT NO. SIZE MAKE/TYPE DEPTH IN DEPTH OUT

FTG HRS WOB RPM JETS GRADE T B

PERFS: 10,310'-10,354', (CIBP@10,550') 11,700'-11,806'

BIT NO. SIZE MAKE/TYPE DEPTH IN DEPTH OUT

FTG HRS WOB RPM JETS GRADE T B

PUMP SIZE SPM PRESSURE

DEFLECTION SURVEY AT

MUD WT VIS W.L. FC PH CL

SOLIDS OIL

LAST CSG STRING: SIZE SEAT HOLE SIZE

DAILY COST - WELL \$ 904.<sup>00</sup> CUMULATIVE COST - WELL \$ 10,284.<sup>00</sup>

MUD \$

PRESENT OPERATIONS

SQUEEZE PERFS 10,310'-10,354'  $\frac{1}{100}$  2X 'H'

REMARKS

SICP: 900<sup>00</sup>

TIH  $\frac{1}{5}$ " HDCH  $\frac{1}{2}$ " SW-327 JTS 2  $\frac{1}{2}$ " TAB To

10,100'. DROP STANDING UNLUE. TEST TAB 5000". (PKR SET)

FISH STANDING UNLUE.

510W.

Pool WSU: 650.<sup>00</sup>

WTR: 120.<sup>00</sup>

SUPV: 134.<sup>00</sup>

= 904.<sup>00</sup>

DRILLING DAYS DT COMPLETION DAYS



Pogo Drilling  
DAILY DRILLING REPORT

WELL UNIVERSITY 20-12-1 DATE 5-14-97

TD 12,002' PBDT 10,550' DRLG. HRS. \_\_\_\_\_ FOOTAGE \_\_\_\_\_ FORMATION \_\_\_\_\_

BIT NO. \_\_\_\_\_ SIZE \_\_\_\_\_ MAKE/TYPE \_\_\_\_\_ DEPTH IN \_\_\_\_\_ DEPTH OUT \_\_\_\_\_  
FTG \_\_\_\_\_ HRS \_\_\_\_\_ WOB \_\_\_\_\_ RPM \_\_\_\_\_ JETS \_\_\_\_\_ GRADE T \_\_\_\_\_ B \_\_\_\_\_

PERFS: 10,310'-10,354' (CIBP@10,550') 11,700'-11,806'  
BIT NO. \_\_\_\_\_ SIZE \_\_\_\_\_ MAKE/TYPE \_\_\_\_\_ DEPTH IN \_\_\_\_\_ DEPTH OUT \_\_\_\_\_

FTG \_\_\_\_\_ HRS \_\_\_\_\_ WOB \_\_\_\_\_ RPM \_\_\_\_\_ JETS \_\_\_\_\_ GRADE T \_\_\_\_\_ B \_\_\_\_\_

PUMP SIZE \_\_\_\_\_ SPM \_\_\_\_\_ PRESSURE \_\_\_\_\_

DEFLECTION SURVEY AT \_\_\_\_\_

MUD WT \_\_\_\_\_ VIS \_\_\_\_\_ W.L. \_\_\_\_\_ FC \_\_\_\_\_ PH \_\_\_\_\_ CL \_\_\_\_\_

SOLIDS \_\_\_\_\_ OIL \_\_\_\_\_

LAST CSG STRING: SIZE \_\_\_\_\_ SEAT \_\_\_\_\_ HOLE SIZE \_\_\_\_\_

DAILY COST - WELL \$ 904.<sup>00</sup> CUMULATIVE COST - WELL \$ 10,284.<sup>00</sup>  
MUD \$ \_\_\_\_\_ MUD \$ \_\_\_\_\_

PRESENT OPERATIONS \_\_\_\_\_

SQUEEZE PERFS 10,310'-10,354' @ 100.2X 'H'

REMARKS  
SICP: 900"  
TIH 4/5 1/2" HDCH 4/2 7/8 SW-327 JTS 2 7/8 TBL To  
10,100'. DROP STANDING VALVE - TEST TAB 5000". (PKR SET)  
FISH STANDING VALVE.  
510W.

Pool WSV: 650.<sup>00</sup>  
WTR: 120.<sup>00</sup>  
SUPV: 134.<sup>00</sup>  
= 904.<sup>00</sup>

DRILLING DAYS D.T. COMPLETION DAYS \_\_\_\_\_



DAILY DRILLING REPORT

WELL UNIVERSITY 20-12-1

DATE 5-15-97

TD 12,002' PBD 10,550' DRLG. HRS. FOOTAGE

FORMATION

BIT NO. SIZE MAKE/TYPE DEPTH IN DEPTH OUT

FTG HRS WOB RPM JETS GRADE T B

PERFS: 10,310'-10,354' (CIPP @ 10,550') 11,700'-11,806'

BIT NO. SIZE MAKE/TYPE DEPTH IN DEPTH OUT

FTG HRS WOB RPM JETS GRADE T B

PUMP SIZE SPM PRESSURE

DEFLECTION SURVEY AT

MUD WT VIS W.L. FC PH CL

SOLIDS OIL

LAST CSG STRING: SIZE SEAT HOLE SIZE

DAILY COST - WELL \$ 7050.<sup>00</sup> CUMULATIVE COST - WELL \$ 17,334.<sup>00</sup>

MUD \$

MUD \$

PRESENT OPERATIONS

TOH w/ PRR.

REMARKS

SICP: Ø SITP: Ø

RU 'B.J', PRR BYPASS OPEN @ 10,100'

LEAD w/ 15 BBL FW - 100 sy 'H' @ 15.6 PP6 → 1.18 @ 2.5 BPM

(CLOSE BYPASS @ 56 BBL →). FLUSH w/ 5 BBL FW

55.5 BBL 10# BRINE. MW 650# - MAX 2500#

15IP: 2000#

SLOW.

Pool Wsu: 550.<sup>00</sup>

CMT : 4800.<sup>00</sup>

WTR : 650.<sup>00</sup>

PRR : 850.<sup>00</sup>

SUPV : 200.<sup>00</sup>

= 7050.<sup>00</sup>

DRILLING DAYS D.T.

COMPLETION DAYS

DAILY DRILLING REPORT

WELL UNIVERSITY 20-12-1 DATE 5-16-97

TD 12,002 PBD 10,650 DRLG. HRS. \_\_\_\_\_ FOOTAGE \_\_\_\_\_ FORMATION \_\_\_\_\_

BIT NO. \_\_\_\_\_ SIZE \_\_\_\_\_ MAKE/TYPER \_\_\_\_\_ DEPTH IN \_\_\_\_\_ DEPTH OUT \_\_\_\_\_

FTG \_\_\_\_\_ HRS \_\_\_\_\_ WOB \_\_\_\_\_ RPM \_\_\_\_\_ JETS \_\_\_\_\_ GRADE T B \_\_\_\_\_

PERFS: 10,310'-10,354' (CIBP @ 10,650') 11,700'-11,806'

BIT NO. \_\_\_\_\_ SIZE \_\_\_\_\_ MAKE/TYPER \_\_\_\_\_ DEPTH IN \_\_\_\_\_ DEPTH OUT \_\_\_\_\_

FTG \_\_\_\_\_ HRS \_\_\_\_\_ WOB \_\_\_\_\_ RPM \_\_\_\_\_ JETS \_\_\_\_\_ GRADE T B \_\_\_\_\_

PUMP SIZE \_\_\_\_\_ SPM \_\_\_\_\_ PRESSURE \_\_\_\_\_

DEFLECTION SURVEY AT \_\_\_\_\_

MUD WT \_\_\_\_\_ VIS \_\_\_\_\_ W. L. \_\_\_\_\_ FC \_\_\_\_\_ PH \_\_\_\_\_ CL \_\_\_\_\_

SOLIDS \_\_\_\_\_ OIL \_\_\_\_\_

LAST CSG STRING: SIZE \_\_\_\_\_ SEAT \_\_\_\_\_ HOLE SIZE \_\_\_\_\_

DAILY COST - WELL \$ 3410.<sup>00</sup> CUMULATIVE COST - WELL \$ 20,744.<sup>00</sup>

MUD \$ \_\_\_\_\_ MUD \$ \_\_\_\_\_

PRESENT OPERATIONS

CONT' DRILL CMT.

REMARKS

SITP = SLIGHT VAC - SICP = 0

LOAD TOG 7 1/10 321-1000#. RELEASE PNR + TOH.

TIH 4 1/2" BIT - 6 x 3 1/2 D.C.'S. 2 7/8 TOG TO 10,150'

THG TOG @ 10,150'. DRILL TO 10,280'. CMT 50 FT.

SLOW.

POOL WGSU: 1430.<sup>00</sup>

WTR: 1180.<sup>00</sup>

BIT: 400.<sup>00</sup>

RUSE UNIT: 1200.<sup>00</sup>

SUPV: 200.<sup>00</sup>

= 3410.<sup>00</sup>

DRILLING DAYS D.T. COMPLETION DAYS \_\_\_\_\_

DAILY DRILLING REPORT



WELL UNIVERSITY 20-12-1 DATE 5-17-97

TD 12,002' PBTD DRLG. HRS. FOOTAGE FORMATION

BIT NO. SIZE MAKE/TYPE DEPTH IN DEPTH OUT

FTG HRS WOB RPM JETS GRADE T B

PERFS: (10,310'-10,354' SQUEEZED) 11,700'-11,806' DEPTH IN DEPTH OUT

BIT NO. SIZE MAKE/TYPE DEPTH IN DEPTH OUT

FTG HRS WOB RPM JETS GRADE T B

PUMP SIZE SPM PRESSURE

DEFLECTION SURVEY AT

MUD WT VIS W.L. FC PH CL

SOLIDS OIL

LAST CSG STRING: SIZE SEAT HOLE SIZE

DAILY COST - WELL \$ 2400.<sup>00</sup> CUMULATIVE COST - WELL \$ 23,144.<sup>00</sup>

MUD \$ MUD \$

PRESENT OPERATIONS

REMARKS

DRILL CMT #/ 10,280' TO 10,370'. TEST PERFS  
1500#. DRILL CIBP @ 10,550'. CONTINUE IN HOLE  
CHECK PBTD @ 11,810'

310W.

Pool wsv: 1550.<sup>00</sup>  
RUSE wsv: 650.<sup>00</sup>  
SUPV : 200.<sup>00</sup>  
= 2400.<sup>00</sup>

DRILLING DAYS D.T. COMPLETION DAYS