RAILROAD COMMISSION OF TEXAS

Form W-2

1701 N. Congress
P.O. Box 12967
Austin, Texas 78701-2967

Status: Approved
Date: 06/02/2017
Tracking No.: 173758

OIL WELL POTENTIAL TEST, COMPLETION OR RECOMPLETION REPORT, AND LOG

OPERATOR INFORMATION

Operator Name: WYCO OIL & GAS LLC **Operator No.:** 945368
Operator Address: PO BOX 12367 ODESSA, TX 79768-2367

WELL INFORMATION

API No.: 42-495-32488 **County:** WINKLER
Well No.: 1 **RRC District No.:** 08
Lease Name: UNIV. 20-12 **Field Name:** BLOCK 20 (WOLFCAMP)
RRC Lease No.: 34773 **Field No.:** 09316850
Location: Section: 12, Block: 20, Survey: UL, Abstract: 000000

Latitude: 31.74121 **Longitude:** -103.29251
This well is located 7.8 **miles in a** WEST **direction from** WINK, **which is the nearest town in the county.**

FILING INFORMATION

Purpose of filing: Well Record Only
Type of completion: Other/Recompletion
Well Type: Producing **Completion or Recompletion Date:** 05/21/1997

Type of Permit	Date	Permit No.
Permit to Drill, Plug Back, or Deepen	07/31/1995	438260
Rule 37 Exception		
Fluid Injection Permit		
O&G Waste Disposal Permit		
Other:		

COMPLETION INFORMATION

Spud date: 05/10/1997 **Date of first production after rig released:** 05/21/1997
Date plug back, deepening, recompletion, or drilling operation commenced: 05/10/1997 **Date plug back, deepening, recompletion, or drilling operation ended:** 05/19/1997
Number of producing wells on this lease in this field (reservoir) including this well: 1 **Distance to nearest well in lease & reservoir (ft.):** 0.0
Total number of acres in lease: 40.00 **Elevation (ft.):** 2817 GR
Total depth TVD (ft.): 12002 **Total depth MD (ft.):**
Plug back depth TVD (ft.): 11933 **Plug back depth MD (ft.):**
Was directional survey made other than inclination (Form W-12)? No **Rotation time within surface casing (hours):**
Is Cementing Affidavit (Form W-15) attached? No
Recompletion or reclass? Yes **Multiple completion?** No
Type(s) of electric or other log(s) run: None
Electric Log Other Description:
Location of well, relative to nearest lease boundaries of lease on which this well is located: 1320.0 **Feet from the** North **Line and** 1320.0 **Feet from the** West **Line of the** UNIV. 20-12 **Lease.** **Off Lease :** No

FORMER FIELD (WITH RESERVOIR) & GAS ID OR OIL LEASE NO.

	Field & Reservoir	Gas ID or Oil Lease No.	Well No.	Prior Service Type
PACKET	BLOCK 20 (BONE SPRING)	35069	1	

W2: N/A

FOR NEW DRILL OR RE-ENTRY, SURFACE CASING DEPTH DETERMINED BY:

GAU Groundwater Protection Determination **Depth (ft.):** 325.0 **Date:**

SWR 13 Exception **Depth (ft.):**

INITIAL POTENTIAL TEST DATA FOR NEW COMPLETION OR RECOMPLETION

Date of test: 05/24/1997 **Production method:** Pumping

Number of hours tested: 24 **Choke size:**

Was swab used during this test? No **Oil produced prior to test:**

PRODUCTION DURING TEST PERIOD:

Oil (BBLS): 93.00 **Gas (MCF):** 115

Gas - Oil Ratio: 1236 **Flowing Tubing Pressure:**

Water (BBLS): 74

CALCULATED 24-HOUR RATE

Oil (BBLS): 93.0 **Gas (MCF):**

Oil Gravity - API - 60.: 43.6 **Casing Pressure:**

Water (BBLS):

CASING RECORD

Row	Type of Casing	Casing Size (in.)	Hole Size (in.)	Setting Depth (ft.)	Multi - Stage Tool Depth (ft.)	Multi - Stage Shoe Depth (ft.)	Cement Class	Cement Amount (sacks)	Slurry Volume (cu. ft.)	Top of Cement (ft.)	TOC Determined By
1	Surface	17 1/2	13 3/8	495			C	550	890.0	SURFACE	Circulated to Surface
2	Intermediate	8 5/8	11	4920			C	1500	2773.0	SURFACE	Circulated to Surface
3	Conventional Production	5 1/2	7 7/8	12002			H	1950	3035.0	3950	Cement Evaluation Log

LINER RECORD

Row	Liner Size (in.)	Hole Size (in.)	Liner Top (ft.)	Liner Bottom (ft.)	Cement Class	Cement Amount (sacks)	Slurry Volume (cu. ft.)	Top of Cement (ft.)	TOC Determined By

N/A

TUBING RECORD

Row	Size (in.)	Depth Size (ft.)	Packer Depth (ft.)/Type
1	2 7/8	11620	/

PRODUCING/INJECTION/DISPOSAL INTERVAL

Row	Open hole?	From (ft.)	To (ft.)
1	No	L 11700	11806.0

ACID, FRACTURE, CEMENT SQUEEZE, CAST IRON BRIDGE PLUG, RETAINER, ETC.

Was hydraulic fracturing treatment performed? No

Is well equipped with a downhole actuation sleeve? No

If yes, actuation pressure (PSIG):

Production casing test pressure (PSIG) prior to hydraulic fracturing treatment:

Actual maximum pressure (PSIG) during hydraulic fracturing:

Has the hydraulic fracturing fluid disclosure been reported to FracFocus disclosure registry (SWR29)? No

Row	Type of Operation	Amount and Kind of Material Used	Depth Interval (ft.)

1	Other	PULL PLUG ABOVE WOLFCAMP PERFS (11,700'-11,806')	11470	11470
2	Cement Squeeze	100 SACKS CLASS H CEMENT, TEST SQUEEZED TO 1500	10310	10354
3	Other	DRILL CEMENT	10280	10370
4	Other	DRILL CIBP ABOVE WOLFCAMP PERFS (11,700' TO 11,806')	10550	10550

FORMATION RECORD

Formations	Encountered	Depth TVD (ft.)	Depth MD (ft.)	Is formation isolated?	Remarks
RUSTLER - POSSIBLE FLOW; POSSIBLE USABLE QUALITY W	Yes	510.0		Yes	ENCOUNTERED
DELAWARE	Yes	5144.0		Yes	ENCOUNTERED
BRUSH CANYON	Yes	7476.0		Yes	ENCOUNTERED

Do the producing interval of this well produce H2S with a concentration in excess of 100 ppm (SWR 36)? No

Is the completion being downhole commingled (SWR 10)? No

REMARKS

CORRECTING 1997 RECORDS TO REFLECT SQUEEZE OF BONE SPRING PERFS, REMOVING TEMPORARY PLUG OF WOLFCAMP PERFS. RESUME PRODUCTION FROM WOLFCAMP ZONE UNTIL PRESENT DAY MAY 2017.

RRC REMARKS

PUBLIC COMMENTS:

[RRC Staff 2017-05-23 10:26:20.293] Completion filing trk #173758 was filed by operator to correct missing information for work done in 1997. Uploaded surveys run in 2/17 are for a deepening which will be reported as a related packet.

CASING RECORD :

TUBING RECORD:

PRODUCING/INJECTION/DISPOSAL INTERVAL :

ACID, FRACTURE, CEMENT SQUEEZE, CAST IRON BRIDGE PLUG, RETAINER, ETC. :

POTENTIAL TEST DATA:

OPERATOR'S CERTIFICATION

Printed Name: Susan Perkins **Title:**

Telephone No.: (512) 772-1555 **Date Certified:** 05/19/2017

MYERS ENGINEERING
3004 Newell Road, Odessa, Texas 79762
Phone: 432-413-4322, Fax: 432-272-0965, E-mail: Kevin.Myers@MyersOil.com

April 30, 2017

Texas Railroad Commission
Oil & Gas Division
P.O. Box 12967
Austin, Texas 78711-2967

Re: Letter of Explanation and Request for Correction of RRC Records
WYCO Oil & Gas LLC (Operator No. 945368)
University 20-12 Lease
Well No. 1 (API No. 42-495-32488)
Block 20 (Wolfcamp) Field (Lease No. 34773)
Block 20 (Bone Springs) Field (Lease No. 35069)
Winkler County, Texas

Gentlemen:

WYCO Oil & Gas LLC recently received a drilling permit (Permit No. 821372) to deepen the subject well for completion in the RRC designated Block 20 (Wolfcamp) reservoir. WYCO has now completed the corresponding well work, and will therefore be filing a W-2 and associated forms. However, in the process of preparing to file these forms, WYCO became aware that RRC records regarding this well are presently incorrect because of a filing deficiency by a prior operator of this well. As a result, WYCO is also filing another W-2 and related documents to report work that was performed by the prior operator back in 1997.

Briefly, the subject well is presently listed as producing from the Block 20 (Bone Spring) field, when in fact that zone was cement squeezed in May of 1997. At that time the well was returned to production from the Block 20 (Wolfcamp) field that had been temporarily abandoned previously. It has been producing from the Wolfcamp ever since. A list of relevant events in the life of this well may be found in the attached chronology. Copies of all well file documents in WYCO's possession that document the unreported well work are attached.

In reviewing the attached documents, please be aware that Pogo's own personnel were apparently confused between the Wolfcamp and Bone Springs reservoir designations, and mistakenly used the wrong reservoir names on some of the documents. This confusion arises from the fact that the RRC designated "Wolfcamp" reservoir includes the Third Bone Springs Sandstone interval. Therefore, please be sure to take note of the actual DEPTHS that are referenced in the attached documents, rather than counting on accuracy of the reported reservoir names.

Once again, the bottom line of all of this is that production from the subject well has been reported in the Bone Springs under lease number 35069 through the present date, when in fact this well has been producing from the Wolfcamp reservoir since May 1997. Therefore the all of the production over this time period should have been reported under lease number 34773, and RRC records should be corrected to address this issue. WYCO is unable to report production

MYERS ENGINEERING
3004 Newell Road, Odessa, Texas 79762
Phone: 432-413-4322, Fax: 432-272-0965, E-mail: Kevin.Myers@MyersOil.com

under the correct lease number (34773) until these issues have been resolved by the RRC, and would therefore appreciate your prompt attention to this matter.

Sincerely,

Kevin A. Myers
Consulting Engineer for WYCO Oil & Gas LLC

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3004 Newell Road, Odessa, Texas 79762
Phone: 432-413-4322, Fax: 432-272-0965, E-mail: Kevin.Myers@MyersOil.com

WYCO Oil & Gas LLC (Operator No. 945368)
University 20-12 #1 (API 42-495-32488)
Block 20 (Bone Springs) Field (Lease No. 35069)
Block 20 (Wolfcamp) Field (Lease No. 34773)
Winkler County, Texas

Chronology of Events

- 12/05/1995 - Pogo Producing Company completed the Wolfcamp reservoir at 11700' - 11806' and properly reported this completion to the RRC.
- 05/31/1996 - Pogo temporarily abandoned the Wolfcamp with a packer and plug set at 11470'.
- 08/07/1996 - Pogo completed the Bone Springs reservoir at 10310' - 10354' and properly reported this completion to the RRC.
- 03/27/1997 - Pogo tagged plug at 11470' between Bone Springs and Wolfcamp, got immediate pressure at surface, well started flowing.
- 05/15/1997 - **Pogo squeezed the Bone Springs perfs at 10310' - 10354' with 100 sacks Class H cement, permanently abandoning the Bone Springs completion interval.**
- 05/17/1997 - Pogo drilled out cement through squeezed interval, tested squeezed interval to 1500 psi, then drilled out plug above Wolfcamp perfs.
- 05/19/1997 - **Pogo returned well to production from original Wolfcamp perfs at 11700' - 11806'. Apparently no change in well status was reported to the RRC. Pogo continued to report production under the Bone Springs reservoir (lease no. 35069) rather than the Wolfcamp (lease no. 34773).**
- 03/01/2008 - Oxy USA Inc. acquired the well from Pogo.
- 07/01/2013 - Oxy lost the lease due to lack of production.
- 03/19/2014 - WYCO acquired the lease at a University Lands lease sale.
- 04/01/2014 - WYCO acquired the wellbore rights from Oxy.
- 04/07/2014 - WYCO received a P-4 for the Wolfcamp (34773) from Oxy, who failed to provide the Bone Springs P-4.
- 08/01/2014 - WYCO resumed production by intermittently flowing the well. WYCO initially filed the production under lease number 34773, because that was the only P-4 received to date from Oxy, and WYCO therefore assumed it represented the correct lease.
- 05/??/2015 - WYCO became aware that lease number 34773 was designated inactive (temporarily abandoned), and requested a P-4 for lease number 35069 from Oxy, under which Oxy (and Pogo) had been previously filing production.
- 06/03/2015 - WYCO received a P-4 for the Bone Springs (35069) from Oxy, and re-filed production since 08/2014 with the RRC under this lease number, once again assuming that Oxy's and Pogo's prior filings were correct.
- 12/16/2016 - WYCO applied for a drilling permit to deepen well further into the Wolfcamp.
- 12/30/2016 - WYCO received a permit from RRC to deepen the well.
- 02/26/2017 - WYCO completed deepening operations.
- 03/21/3017 - While preparing completion forms, WYCO personnel noted that the well was actually producing from the Wolfcamp reservoir (34773) prior to WYCO's deepening, even though production was being reported under the Bone Springs reservoir (35069) because Pogo failed to file forms regarding the well work that was performed in May 1997.

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%

KB: 3477' KB
PTD: 8150'

P: 2BS 10310-10354' sqzd
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 2⅞ 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 & 4½" cut lip guide. Scale on bottom 6 jts tbg. TIH w/ret head - bumper sub - jars - 4 x 3½ D.C.'s - 2⅞ 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 5½" 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 Ø, SITP Ø. 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: Drlg cmt.

SITP sl vac, SICP Ø. Tag cmt @ 10150', drl to 10280', cmt soft. SDFN.

Daily Cost: $3,410 Cum Cost: $72,066

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

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

Daily Cost: $2,400 Cum Cost: $74,466

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%

KB: 3477' KB
PTD: 8150'

P: 2BS 10310-10354' sqzd
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' PBTD 11810' P:3BS*. PO: Hang well on.

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

Daily Cost: $2,580 Cum Cost: $77,046

5/19/97 TD 12002' PBTD 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' PBTD 11810' P:3BS*. 14½ hrs - Pmpd 0 BO, 149 BW, 0 mcf.
5/21/97 TD 12002' PBTD 11810' P:3BS*. 24 hrs - Pmpd 11 BO, 60 BW, 90 mcf.
5/22/97 TD 12002' PBTD 11810' P:3BS*. 24 hrs - Pmpd 66 BO, 74 BW, 115 mcf.
5/23/97 TD 12002' PBTD 11810' P:3BS*. 24 hrs - Pmpd 83 BO, 64 BW, 115 mcf.
5/24/97 TD 12002' PBTD 11810' P:3BS*. 24 hrs - Pmpd 93 BO, 74 BW, 115 mcf.
5/24/97 TD 12002' PBTD 11810' P:3BS*. 24 hrs - Pmpd 94 BO, 76 BW, 115 mcf.
5/24/97 TD 12002' PBTD 11810' P:3BS*. 24 hrs - Pmpd 94 BO, 62 BW, 115 mcf.
5/24/97 TD 12002' PBTD 11810' P:3BS*. 24 hrs - Pmpd 94 BO, 73 BW, 115 mcf.
5/28/97 TD 12002' PBTD 11810' P:3BS*. 24 hrs - Pmpd 100 BO, 86 BW, 115 mcf.
5/29/97 TD 12002' PBTD 11810' P:3BS*. 24 hrs - Pmpd 91 BO, 80 BW, 115 mcf.
5/30/97 TD 12002' PBTD 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' 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 $ 2970.00 CUMULATIVE COST - WELL $ 9380.00

MUD $ ____ MUD $ ____

PRESENT OPERATIONS

TIH W/ 5½" MOCH - SQUEEZE 10,310'-10,354'

REMARKS SICP: 500#

TIH W/ T86 SET 5½" CIBP - 2⅞ T86 TO 10,550'. SET RBP. EST INJ RATE 1400# @ 2BPM. TOH W/ T86. SION.

POOL WSU: 1470.00

CIBP: 850.00

WTR: 450.00

SUPV: 200.00

= 2970.00

DRILLING DAYS DT COMPLETION DAYS

POCO-E-11

Daily Report

Pogo Producing

DAILY DRILLING REPORT

DATE 5-14-97

WELL University 20-12-1

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 $ 904.00 CUMULATIVE COST - WELL $ 10,284.00

MUD $ ____ MUD $ ____

PRESENT OPERATIONS

SQUEEZE PERFS 10,310'-10,354' W/100 SX 'H'

REMARKS

SICP: 900#.

TIH W/5½" HDCH W/2⅞ SN - 327 JTS 2⅞ TBG TO 10,100'. DROP STANDING VALVE - TEST TBG 5000#. (PKR SET)

FISH STANDING VALVE.

SION.

POOL WSU: 650.00

WTR: 120.00

SUPV: 134.00

= 904.00

DRILLING DAYS D.T. COMPLETION DAYS ____

Pogo Producing

DAILY DRILLING 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 $ 904.00 CUMULATIVE COST - WELL $ 10,284.00

MUD $ ____ MUD $ ____

PRESENT OPERATIONS

SQUEEZE PERFS 10,310'-10,354' W/100 SX 'H'

REMARKS SICP: 900#.

TIH W/ 5½" HDCH W/ 2⅞ SN - 327 JTS 2⅞ TBG TO 10,100'. DROP STANDING VALVE - TEST TBG 5000#. (PKR SET)

FISH STANDING VALVE.

SION.

POOL WSU: 650.00

WTR: 120.00

SUPV: 134.00

= 904.00

DRILLING DAYS D.T. COMPLETION DAYS ____

DAILY DRILLING REPORT

WELL UNIVERSITY 20-12-1 DATE 5-15-97

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 $ 7050.00 CUMULATIVE COST - WELL $ 17,334.00

MUD $ MUD $

PRESENT OPERATIONS

TOH W/ PKR.

REMARKS

SICP: 0 SITP: 0

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

LEAD W/ 15 BBL FW - 100 SX 'H' @ 15.6 PPG → 1.18 @ 2.5 BPM

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

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

ISIP: 2000#

SION.

POOL WSU: 550.00

CMT : 4800.00

WTR : 650.00

PKR : 850.00

SUPV : 200.00

= 7050.00

DRILLING DAYS D.T. COMPLETION DAYS

DAILY DRILLING REPORT

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

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'-10,364' (CIBP @ 10,650') 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 $ 3410.00 CUMULATIVE COST - WELL $ 20,744.00

MUD $ MUD $

PRESENT OPERATIONS

Cont' Drill cmt.

REMARKS

SITP= Slight vac - SICP= 0

Load Tbg w/ 1/10 bbl - 1000#. Release PKR + TOH.

TIH w/ 4 1/2" bit - 6 x 3 1/2 D.C's. 2 7/8 Tbg To. 10,150'

Tag TOC @ 10,150'. Drill To 10,280'; Cmt Soft.

SIOW.

Pool WSU: 1430.00

WTR: 180.00

Bit: 400.00

Ruse Unit: 1200.00

Supv: 200.00

= 3410.00

DRILLING DAYS D.T. COMPLETION DAYS

POGO-5-11

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'

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 $ 2400.00 CUMULATIVE COST - WELL $ 23,144.00

MUD $ _____ MUD $ _____

PRESENT OPERATIONS

REMARKS

Drill cmt f/ 10,280' to 10,370'. Test Perfs 1500#. Drill CIBP @ 10,550'. Continue in hole. Check PBTD @ 11,810'.

SION.

Pool WSU: 1550.00

Ruse Unit: 650.00

Supv: 200.00

= 2400.00

DRILLING DAYS D.T. COMPLETION DAYS

Type or print only

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Form W-2
Rev. 4/1/83
483-046

#09316 - 050

API No. 42- 495-32488

Oil Well Potential Test, Completion or Recompletion Report, and Log

7. RRC District No. 8

8. RRC Lease No. ~~34773~~ 35069

1. FIELD NAME (as per RRC Records or Wildcat): BLOCK 20 (BONE SPRING)

2. LEASE NAME: University 20-12

9. Well No. 1

3. OPERATOR'S NAME (Exactly as shown on Form P-5, Organization Report): Pogo Producing ~~Company~~

RRC Operator No. 668900

10. County of well site: Winkler

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SEP - 3 1996
O.G.
MIDLAND, TEXAS

4. ADDRESS: P. O. Box 10340, Midland, TX 79702-7340

5. If Operator has changed within last 60 days, name former operator

11. Purpose of filing
- Initial Potential [X]
- Retest [ ]
- Reclass [ ]
- Well record only (explain in Remarks) [ ]

6a. Location (Section, Block, and Survey): Sec. 12, Blk. 20, ULS

6b. Distance and direction to nearest town in this county: 15 miles West of Wink

12. If workover or reclass, give former field (with reservoir) & gas ID or oil lease no.

FIELD & RESERVOIR	GAS ID or OIL LEASE #	Oil - O Gas - G	WELL NO.
Block 20 (Wolfcamp) Partial Plug	34773	0	1

13. Type of electric or other log run

14. Completion or recompletion date: 8/4/96

SECTION I: POTENTIAL TEST DATA IMPORTANT: Test should be for 24 hours unless otherwise specified in field rules.

15. Date of test	16. No. of hours tested	17. Production method (Flowing, Gas Lift, Jetting, Pumping—Size & Type of pump)			18. Choke size
8/7/96	24	Pumping 1-1/4" insert			
19. Production during Test Period ▶	Oil - BBLS: 92	Gas — MCF: 46	Water - BBLS: 92	Gas - Oil Ratio: 500:1	Flowing Tubing Pressure: PSI
20. Calculated 24-Hour Rate ▶	Oil - BBLS: 92	Gas — MCF: 46	Water — BBLS: 92	Oil Gravity—API—60°: 42.1	Casing Pressure: PSI

21. Was swab used during this test? Yes [ ] No [X]

22. Oil produced prior to test (New & Reworked wells): 600 bbls

23. Injection Gas—Oil Ratio

REMARKS: Plug backed well by setting RBP @ 11,500' & dumping 5 sxs sand on top. Opened Bone Springs Lime 10,310'-10,354'. Request to rename field Block 20 Bone Springs and leave both permits open due to future plans to commingle Bone Springs and Wolfcamp zones.

INSTRUCTIONS: File an original and one copy of the completed Form W-2 in the appropriate RRC District Office within 30 days after completing a well and within 10 days after a potential test. If an operator does not properly report the results of a potential test within the 10-day period, the effective date of the allowable assigned to the well will not extend back more than 10 days before the W-2 was received in the District Office. (Statewide Rules 16 and 51) To report a completion or recompletion, fill in both sides of this form. To report a retest, fill in only the front side.

RECORD CODIFICATION
NOV 07 1996

WELL TESTER'S CERTIFICATION
I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I conducted or supervised this test by observation of (a) meter readings or (b) the top and bottom gauges of each tank into which production was run during the test. I further certify that the potential test data shown above is true, correct, and complete, to the best of my knowledge.

RECEIVED R.R.C. OF TEXAS
SEP 27 1996
AUSTIN, TEXAS

Signature- Well Tester | Name of Company | RRC Representative

OPERATOR'S CERTIFICATION
I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Barrett L. Smith
Typed or printed name of operator's representative

Senior Operations Engineer
Title of Person

(915)682-6822
Telephone Area Code Number

Date: 8 / 21 / 96 (mo. / day / year)

Signature

Return to Records Retention

MAPPING 143

495-32488

VALID PERMIT
PRODUCTION ALLOCATION

SECTION II — **DATA ON WELL COMPLETION AND LOG (Not Required on Retest)**

24. Type of Completion: New Well ☐ Deepening ☐ Plug Back ☒ Other ☐

25. Permit to Drill, Plug Back or Deepen — DATE 8-23-96 — PERMIT NO. 451834

Rule 37 Exception — CASE NO.

Water Injection Permit — PERMIT NO.

Salt Water Disposal Permit — PERMIT NO.

Other — PERMIT NO.

26. Notice of Intention to Drill this well was filed in Name of

27. Number of producing wells on this lease in this field (reservoir) including this well: 1st Well

28. Total number of acres in this lease: 640

29. Date Plug Back, Deepening, WorkOver or Drilling Operations: Commenced 7/17/96; Completed 8/3/96

30 Distance to nearest well, Same Lease & Reservoir: 1st well

31. Location of well, relative to nearest lease boundaries of lease on which this well is located: 1320 Feet From North Line and 1320 Feet from West Line of the University 20-12 Lease

32. Elevation (DF, RKB, RT, GR, ETC.)

33. Was directional survey made other than inclination (Form W—12)? ☐ Yes ☐ No

34 Top of Pay	35. Total Depth	36. P. B. Depth	37 Surface Casing Determined by.
	12,002'	11,500'	Field Rules ☐ / Recommendation of T.D.W.R. ☐ / Railroad Commission (Special) ☐

Dt of Letter

Dt. of Letter

38. Is well multiple completion?

39. If multiple completion, list all reservoir names (completions in this well) and Oil Lease or Gas ID No

FIELD & RESERVOIR	GAS ID or OIL LEASE #	Oil—O Gas—G	WELL #
Block 20 Wolfcamp	34773	O	1
Block 20 Bone Springs			

40 Intervals Drilled by — Rotary Tools — Cable Tools

41. Name of Drilling Contractor: Rule 10

42 Is Cementing Affidavit Attached? ☐ Yes ☐ No

43. CASING RECORD (Report All Strings Set in Well)

CASING SIZE	WT #/FT.	DEPTH SET	MULTISTAGE TOOL DEPTH	TYPE & AMOUNT CEMENT (sacks)	HOLE SIZE	TOP OF CEMENT	SLURRY VOL. cu. ft. .

44. LINER RECORD

Size	TOP	Bottom	Sacks Cement	Screen

45. TUBING RECORD

Size	Depth Set	Packer Set

46. Producing Interval (this completion) Indicate depth of perforation or open hole

From	10,310'	To	10,354'
From		To	
From		To	
From		To	

47. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

Depth Interval	Amount and Kind of Material Used
10,310'-10,354'	Acdz w/ 4300 gals 15% HCl. Frac w/ 53,000# 20/40 sand.
11,700'-11,806'	Acdz w/ 2000 gals 15% HCl. Frac w/ 152,000# 20/40 sand.

48. FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)

Formations	Depth	Formations	Depth

REMARKS: Plugged back from Wolfcamp zone 11,700'-11,806' by setting RBP @ 11,500' & perforating the Bone Spring 10,310'-10,354' Lower wellbore TA'd

* Please leave permit open for future down hole commingling.

T.P.R.C. LETTER DATED 9-18-95

Surface Casing 13 3/8 @ 495 ft.

Type or print Exception Dated ____ Oil and Gas Division

D.V. @ ____ ft.

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RAILROAD COMMISSION OF TEXAS

Form W-2
Rev. 4/1/83
483-046

API No. 42- 495-32488

7. RRC District No. 8

Oil Well Potential Test, Completion or Recompletion Report, and Log

Block

8. RRC Lease No. 35773

1. FIELD NAME (as per RRC Records or Wildcat): ~~Blk~~ 20 (Wolfcamp)

2. LEASE NAME: University 20-12

9. Well No. 1

3. OPERATOR'S NAME (Exactly as shown on Form P-5, Organization Report): Pogo Producing Company

RRC Operator No. 668900

10. County of well site: Winkler

4. ADDRESS: P. O. Box 10340, Midland

11. Purpose of filing
- Initial Potential [XX]
- Retest [ ]
- Reclass [ ]
- Well record only (explain in Remarks) [ ]

5. If Operator has changed within last 60 days, name former operator

6a. Location (Section, Block, and Survey): Sec. 12, Blk. 20, Univ. Lds. Survey

6b. Distance and direction to nearest town in this county.: 7 miles west of Wink

12. If workover or reclass, give former field (with reservoir) & gas ID or oil lease no.
FIELD & RESERVOIR: RECORD CODIFICATION
GAS ID or OIL LEASE #:
Oil - O / Gas - G: O
WELL NO:

13. Type of electric or other log run: CNL-CFL-Density-CBL

JAN 17 1996

14. Completion or recompletion date: 11/12/95

SECTION I: POTENTIAL TEST DATA IMPORTANT: Test should be for 24 hours unless otherwise specified in field rules.

15. Date of test	16. No. of hours tested	17. Production method (Flowing, Gas Lift, Jetting, Pumping—Size & Type of pump)	18. Choke size
12/5/95	24	Flowing	16/64"

	Oil - BBLS	Gas — MCF	Water - BBLS	Gas - Oil Ratio	Flowing Tubing Pressure
19 Production during Test Period ▶	223	200	102	896:1	PSI
20. Calculated 24-Hour Rate ▶	223	200	102	Oil Gravity—API—60° 43.6	Casing Pressure 500 PSI

21 Was swab used during this test? Yes [ ] No [X]

22. Oil produced prior to test (New & Reworked wells): 2500 bbls

23. Injection Gas—Oil Ratio

REMARKS.

Return to Central Records

INSTRUCTIONS: File an original and one copy of the completed Form W-2 in the appropriate RRC District Office within 30 days after completing a well and within 10 days after a potential test. If an operator does not properly report the results of a potential test within the 10-day period, the effective date of the allowable assigned to the well will not extend back more than 10 days before the W-2 was received in the District Office. (Statewide Rules 16 and 51) To report a completion or recompletion, fill in both sides of this form. To report a retest, fill in only the front side.

WELL TESTER'S CERTIFICATION
I declare under penalties prescribed in Sec 91.143, Texas Natural Resources Code, that I conducted or supervised this test by observation of (a) meter readings or (b) the top and bottom gauges of each tank into which production was run during the test. I further certify that the potential test data shown above is true, correct, and complete, to the best of my knowledge.

Richard L. Wright — Pogo Producing

Signature: Well Tester — Name of Company — RRC Representative

RECEIVED R.R.C. OF TEXAS DEC 11 1995 O.G. MIDLAND, TEXAS

OPERATOR'S CERTIFICATION
I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Barrett L. Smith — Typed or printed name of operator's representative

Senior Operations Engineer — Title of Person

(915)682-6822 — Telephone, Area Code Number

12 / 7 / 95 — Date mo. day year

Barrett L. Smith — Signature

495-32488

MAPPING

VALID PERMIT
PRODUCTION ALLOCATION
DEC 21 1995

SECTION II — DATA ON WELL COMPLETION AND LOG (Not Required on Retest)

24. Type of Completion: New Well [X] Deepening [ ] Plug Back [ ] Other [ ]

25. Permit to Drill, Plug Back or Deepen — DATE: 7/31/95 — PERMIT NO.: 438260
Rule 37 Exception — CASE NO.:
Water Injection Permit — PERMIT NO.:
Salt Water Disposal Permit — PERMIT NO.:
Other — PERMIT NO.:

26. Notice of Intention to Drill this well was filed in Name of
Pogo Producing Company

27. Number of producing wells on this lease in this field (reservoir) including this well
1st Well

28. Total number of acres in this lease
640

29. Date Plug Back, Deepening, WorkOver or Drilling Operations: Commenced 10/10/95 Completed 11/2/95

30. Distance to nearest well, Same Lease & Reservoir
1st Well

31. Location of well, relative to nearest lease boundaries of lease on which this well is located
1320 Feet From North Line and 1320 Feet from West Line of the University 20-12 Lease

32. Elevation (DF, RKB, RT, GR, ETC.)
2817' GR

33. Was directional survey made other than inclination (Form W—12)? [ ] Yes [X] No

34. Top of Pay

35. Total Depth
12002'

36. P. B. Depth
11967'

37. Surface Casing Determined by. Field Rules [XX] Recommendation of T.D.W.R. [ ] Dt. of Letter
Railroad Commission (Special) [ ] Dt. of Letter

38. Is well multiple completion?
No

39. If multiple completion, list all reservoir names (completions in this well) and Oil Lease or Gas ID No.

FIELD & RESERVOIR	GAS ID or OIL LEASE #	Oil—O Gas—G	WELL #

40. Intervals Drilled by: Rotary Tools X Cable Tools

41. Name of Drilling Contractor
Timber Sharp

42. Is Cementing Affidavit Attached? [X] Yes [ ] No

43. CASING RECORD (Report All Strings Set in Well)

CASING SIZE	WT #/FT.	DEPTH SET	MULTISTAGE TOOL DEPTH	TYPE & AMOUNT CEMENT (sacks)	HOLE SIZE	TOP OF CEMENT	SLURRY VOL. cu. ft.
13-3/8	54.5#	495		550 sxs Cl C	17-1/2	surf	890
8-5/8	32#	4920		1500sxs Cl C	11	surf	2773
5-1/2	23#	12002		1950sxs Cl H	7-7/8	3950	3034.5

44. LINER RECORD

Size	TOP	Bottom	Sacks Cement	Screen

45. TUBING RECORD

Size	Depth Set	Packer Set
None		

46. Producing Interval (this completion) Indicate depth of perforation or open hole

From	11700'	To	11806'
From		To	
From		To	
From		To	

47. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

Depth Interval	Amount and Kind of Material Used
11700 - 11806	Acdz w/ 2000 gals 15% NeFe HCl
	Frac w/ 152,000# 20/40 sand

48. FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)

Formations	Depth	Formations	Depth

REMARKS