

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
ACD-1 WELL HISTORY
DESCRIPTION OF WELL AND LEASE

Operator: License # 31632

Name: Bison Production Company

Address: 9320 East Central

City/State/Zip Wichita, Kansas 67206

N/A

Purchaser:

Operator Contact Person: C.J. Lett

Phone (316) 636-1801

Contractor: Name: Duke Drilling Co., Inc.

License: 5929

Wellsite Geologist: Dean Patterson

Designate Type of Completion

New Well Re-Entry Workover

Oil SWD S10W Temp. Abd.

Gas EMHR S1GW

Dry Other (Core, VSV, Expl., Cathodic, etc)

If Workover/Re-Entry: old well info as follows:

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NULL

SEP 16 1998

JUN 20

Comp. Date 03-29-97 Old Total Depth 04-06-97 Conv. to Inj/SWD 04-06-97

FROM CONFIDENTIAL

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Plug Back PBTB

Commingled Docket No.

Dual Completion Docket No.

Other (SWD or Inj?) Docket No.

03-29-97

04-06-97

04-06-97

Spud Date

Date Reached TD

Completion Date

API NO. 15- 15-007-22533 0000

County Barber County Kansas

SE - NW - NW Sec. 12 Twp. 33S Rgp. 12' XX

990 Feet from S (circle one) Line of Section

990 Feet from E (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
NE, SE, NW or SW (circle one)

Lease Name Prothe Well # 1-12

Field Name Rhodes

Producing Formation N/A

Elevation: Ground 1434' KB 1442'

Total Depth 4395' PBTB 4480'

Amount of Surface Pipe Set and Cemented at 261 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from _____

feet depth to _____ w/ _____ ss cont

Drilling Fluid Management Plan ALT 1 DSA
(Data must be collected from the Reserve Pit) BPW 7-29-97

Chloride content _____ ppm Fluid volume _____ bbls

Dewatering method used haul off - backfill

Location of fluid disposal if hauled offsite: _____

Operator Name Bowers Drilling Co.

Lease Name Cole SWD License No. 5435

Quarter 25 Sec. 32S Twp. 5 Rgp. 12W E/W

County Barber Docket No. 19886

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

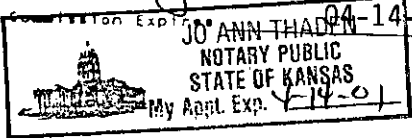
Signature _____

Title Steven C. Anderson Date 6-6-97

Subscribed and sworn to before me this 6th day of June 19 97

Notary Public Jo Ann Thaden

Date Commission Expires 04-14-02



K.C.C. OFFICE USE ONLY
 Letter of Confidentiality Attached
 Wireline Log Received
 Geologist Report Received
Distribution
 KCC SWD/Rep KGPA
 KGS Plug Other (Specify)

PROTHE

Operator Name BISON PRODUCTION COMPANY

Lease Name PROTHE Well # 1-12

East

County Barber County, Kansas

Sec. 12 Twp. 33S Rge. 12

West

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken Yes No
(Attach Additional Sheets.)

Samples Sent to Geological Survey Yes No

Cores Taken Yes No

Electric Log Run Yes No
(Submit Copy.)

List All E.Logs Run: Dual Induction, Compensated Density Neutron

Log Formation (Top), Depth and Datum Sample
Name Top Datum

See attached

PLEASE KEEP THIS INFORMATION CONFIDENTIAL.

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CASING RECORD

New Used

Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (in O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12-1/4"	8-5/8"	20#	261'	60/40 Poz	165	3%cc; 2%gel

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth

TUBING RECORD Size Set At Packer At Liner Run Yes No

Date of First, Resumed Production, SWD or Inj. Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours Oil Bbls. Gas Mcf Water Bbls. Gas-Oil Ratio Gravity

Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACO-18.)

METHOD OF COMPLETION Open Hole Perf. Dually Comp. Commingled Other (Specify)

Production Interval

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Exhibit "A"

PROTHE #1-21
SE NW NW 12033S-12W
Barber CO., KS
API # 15-007-22533 0000

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DST#1

Test Interval: 4370 - 4395'
Formation: Mississippian Osage
Tool Interval: 15"-30"-30"-90"

IHP 2153#
IFP 31-34#
ISIP 95#
FFP 32-33#
FSIP 110#
FHP 2116#

Preflow: Fair blow, building to 9" in bucket.
Second Flow: Weak blow, building to 2" in bucket.
Recovery: 250' gas in pipe, 10' drilling mud.

BHT: 114 deg. F.

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GEOLOGIC DATA:

FROM CONFIDENTIAL

Log KB Tops:
Formation

Top Datum

Formation	Top	Datum
KANWAKA SH.	3368	-1926
ELGIN SD.	3496	-2054
HEEBNER SH.	3575	-2133
SNYDERVILLE SD.	3594	-2152
DOUGLAS GP.	3672	-2230
LWR. IRELAND SD.	3617	-1994
HASKELL LS.	3762	-2320
LANSING GP.	3766	-2324
STARK SH.	4180	-2738
HUSHPUCKNEY SH.	4206	-2764
BASE KC GP.	4232	-2790
MARMATON LS.	4242	-2800
PAWNEE LS	4344	-2902
LABETTE SH.	4361	-2919
CHEROKEE GP.	4370	-2928
ERO. MISS. CHERT	4383	-2941

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ORIGINAL

XPLORATION SERVICES, INC.

OIL & GAS PROSPECTS - EVALUATION - DRILLING & COMPLETION SUPERVISION



April 17, 1997

Bison Production Company
9320 E. Central
Wichita, Kansas 67278

KCC

JUN 20

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RE: Geologic Report
#1-12 Prothe
125' E of SE NW NW
Sec.12-T33s-R12w
Barber County, Kansas

Gentlemen,

The following report is a summary of the drilling operations regarding the above captioned well.

RECOMMENDATION:

Due to negative results of testing, poor zone development and log calculations it was recommended to the operator that the well be plugged in accordance with the rules and regulations of the KCC.

GENERAL WELL DATA:

Spud date: March 29, 1997
Drilling completed: April 5, 1997

Contractor: Duke Drilling Co., Rig #2. John Armbruster; Toolpusher

Elevations: 1442' KB, 1441' DF, 1434' GL. All drilling operations measured from KB.

Rotary Total Depth: 4395'
Logged Total Depth: 4395'

Casing: Surface; New 85/8" 20# set at 262' with 165 sxs 60/40 Pozmix, 3%CC, 2% gel by Allied;
Cementing. Plug down 5:30 pm.

Production: None

Mud Program: MudCo Inc. Chemical Gel System. Gary Talbot; Engineer.

Geologic Program: 1' drilling time from 3300', 10' Dry samples from 3400'. 10' Wet samples from 3400'.

Open Hole Logs: ELI Logging. DIL / CNL / CDL. 5" from 3300' to 4392'.

Hole Deviation(s): 3/4 @ 262', 1 @ 4395'.

Formation Test(s): One by Superior Testers, Great Bend, Gene Budig tester.

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DST#1

(All Pressures are electronic recorder)

Test Interval: 4370 - 4395'
Formation: Mississippian Osage
Tool Interval: 15"-30"-30"-90"

IHP 2153#
IFP 31-34#
ISIP 95#
FFP 32-33#
FSIP 110#
FHP 2116#

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Preflow: Fair blow, building to 9" in bucket.
Second Flow: Weak blow, building to 2" in bucket.
Recovery: 250' gas in pipe, 10' drilling mud.

BHT:114 deg. F.

GEOLOGIC DATA:

Log KB Tops:
Formation

Top Datum Position*

Formation	Top	Datum	Position*
KANWAKA SH.	3368	-1926	0'
ELGIN SD.	3496	-2054	+1'
HEEBNER SH.	3575	-2133	-2'
SNYDERVILLE SD.	3594	-2152	-3'
DOUGLAS GP.	3672	-2230	-5'
LWR. IRELAND SD.	3617	-1994	+1'
HASKELL LS.	3762	-2320	-7'
LANSING GP.	3766	-2324	-9'
STARK SH.	4180	-2738	-9'
HUSHPUCKNEY SH.	4206	-2764	-10'
BASE KC GP.	4232	-2790	-9'
MARMATON LS.	4242	-2800	-9'
PAWNEE LS	4344	-2902	-9'
LABETTE SH.	4361	-2919	-11'
CHEROKEE GP.	4370	-2928	-9'
ERO. MISS. CHERT	4383	-2941	-19'

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** Structural position compared to Okmar Oil #1 Kenney, S2 S2 SW 1-33-12w

ANALYSIS OF SHOWS:

Minor Show Zone(s):

Lansing 'A' Zone; 3766 - 3769', Not circulated or tested.

Limestone; Cream to buff, singular, recrystalline fossiliferous wackestone / grainstone. Scattered oolcastic pores and good interparticle and intercrystalline type porosity. Slight show of live oil with rare scattered gas bubbles. No odor. Spotted yellow fluorescence. Zone was well developed but unfortunately quite thin. It was tested in the offsetting wells and due to its thin character and low structural setting it was not tested in this well and not judged to be economically viable.

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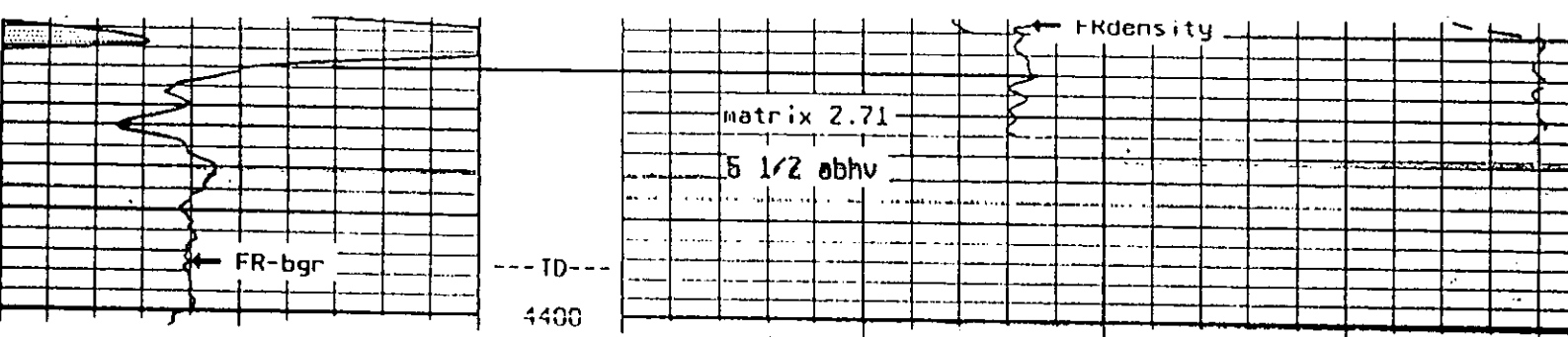
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Major Show Zone(s):

Erosional Mississippi Chert, 4383 - 4395 (RTD). Circulated and approved by USFPM.

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Chert: Tan to white, mottled. Spicular to some weathered, occasional fresh sharp. Mostly dense appearing with some very fine intercrystalline and scattered fossilcast porosity. Weathered type porosity is good reservoir but only makes up small percentage of total chert. Dull yellow spotted fluorescence. Light odor. Slight show of gas bubbles.

Limestone: Pale green, singular, dense to sucrosic wackestone.

Limestone: Tan, singular, fossiliferous to recrystalline fossiliferous wackestone. Good vugular intergrainular type porosity. Nearly all porosity has heavy black dead oil in it. No fluorescence, good cut and strong cut fluorescence.

Though not identified specifically due to the quantity of slough from above, it appeared that there was interbedded shale both in the limestone and chert. The higher than normal gamma ray count on the open hole log seems to substantiate this.

Conclusions:

In reviewing the results of the #1-12 Prothe two assumptions can be made. One, the Telluric survey was a complete bust and totally failed to accurately predict the true structure and stratigraphy or the Tellurics were somewhat mis-interpeted due to their area of investigation. I firmly believe that the second scenario is correct and that moving the location to avoid the surface waterway may have compounded the error. Tellurics, by their design have a radius of investigation of nearly 400 feet at the depth of the Mississippi in this prospect. Also, tight, non-reservoir rock like that intercepted in this well give no "negative" Telluric signal as would a wet, permeable reservoir. Thus if Survey Station S-8 (that one nearest to the drillsite) only read "good gas" over the western portion of its radius of investigation (ROI) and the remaining portion was barren but not negative we would naturally give that station a "good reading" for the entire ROI. This is substantiated by readings of "moderate gas" surrounding S-8. The geological error was that the shallow saddle low inferred between the two ends of the trap was really a relatively narrow erosional ditch filled with shaley chert which the #1-12 Prothe intercepted. I believe that if the location had been moved west instead the well would have found the portion of the ROI which accurately read the "good gas" signal. However, due to the channel's dissecting the trap in half, the Prothe well even if it had found the productive portion of the reservoir may have recovered less gas than originally estimated.

Respectfully submitted,

Xploration Services, Inc

[Handwritten signature]

Dean Pattison
Consulting Geologist

KCC

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TELEPHONE
AREA CODE 913-483-2627
AREA CODE 913-483-3887

ALLIED CEMENTING COMPANY, INC.

ORIGINAL

P. O. BOX 31
RUSSELL, KANSAS 67665

Federal Tax I.D.# 48-0727860

TO: Duke Drilling Co.

CONFIDENTIAL

INVOICE NO. 74793

P. O. Box 823

PURCHASE ORDER NO. _____

Great Bend, KS 67530

LEASE NAME Prothe 1-12

APR 1 1997

DATE 3-30-97

SERVICE AND MATERIALS AS FOLLOWS:

Common 99sks @\$6.10		\$603.90
Pozmix 66 sks @\$3.15		207.90
Gel 3 sks @\$9.50		28.50
Chloride 5 sks @\$28.00		140.00
		<u>980.30</u>

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\$ 980.30

Handling 165 sks @\$1.05		173.25
Mileage min. chg.		80.00
Surface		445.00
Mi @\$2.85 pmp tkr chg (8)		22.80
1 plug		45.00
		<u>766.05</u>

Total

\$1,746.35

(261.95)
1484.40

If Account CURRENT a
Discount of \$ 261.95
will be Allowed ONLY if
Paid Within 30 Days from
Date of Invoice.



Thank You!

All Prices Are Net, Payable 30 Days Following Date of Invoice. 1 1/2% Charged Thereafter.

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TELEPHONE
AREA CODE 913 483-2627
AREA CODE 913 483-3887

ALLIED CEMENTING COMPANY, INC.

P. O. BOX 31
RUSSELL, KANSAS 67665

ORIGINAL

Federal Tax I.D.# 48-0727860

TO: Duke Drilling Co., Inc.
P. O. Box 823
Great Bend, KS 67530

APR 18 1997

INVOICE NO. 74843
PURCHASE ORDER NO. _____
LEASE NAME Prothe 1-12
DATE 4-6-97

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SERVICE AND MATERIALS AS FOLLOWS:

Common 81 sks @\$6.10	\$494.10
Pozmix 54 sks @\$3.15	170.10
Gel 7 sks @\$9.50	<u>66.50</u>
Handling 135 sks @\$1.05	141.75
Mileage min. chg.	80.00
Rotary Plug	445.00
Mi @\$2.85 pmp trk chg	22.80
1 plug	<u>23.00</u>

ALL

JUN 20

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Total

\$ 730.70

712.55

\$1,443.25

216.487

If Account CURRENT a
Discount of \$ 216.48
will be Allowed ONLY if
Paid Within 30 Days from
Date of Invoice.



Thank You!

All Prices Are Net, Payable 30 Days Following Date of Invoice. 1 1/2% Charged Thereafter.

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FOR KCC USE:

EFFECTIVE DATE: 2-16-97

DISTRICT # 1
SGA Yes No

State of Kansas 15 - 007-22, 533 • 00 • 00
NOTICE OF INTENTION TO DRILL

Must be approved by the K.C.C. five (5) days prior to commencing well

FORM C-1 7/91
FORM MUST BE TYPED
FORM MUST BE SIGNED
ALL BLANKS MUST BE FILLED

Expected Spud Date: 3 9 97
Month day year

Spot SE NW NW Sec 12 Twp 33 S Rg 12W
East West

990 feet from South (North) Line of Section

990 feet from East (West) Line of Section

OPERATOR: LICENSE # 31532
Name: BISON PRODUCTION COMPANY
Address: 9320 E. CENTRAL
City/State/Zip: WICHITA, KANSAS 67206
Contact Person: C.J. LETT
Phone: 316-636-1801

IS SECTION XX REGULAR IRREGULAR?
(Note: Locate well on the Section Plat on Reverse Side)
County: BARBER
Lease Name: BROTHE Well #: 1-12
Field Name: RHODES

CONTRACTOR: License # 5929
Name: DUKE DRILLING COMPANY

Is this a Prorated / Spaced Field? yes no
Target Formation (s): MISSISSIPPI

Well Drilled For: Well Class: Type Equipment:
Oil Enh Rec Infield Mud Rotary
 Gas Storage Pool Extension Air Rotary
OWWO Disposal Wildcat Cable
Seismic: # of Holes Other

Nearest Lease or unit boundary: 990 feet MSL
Ground Surface Elevation: 1431
Water well within one - quarter mile: yes no
Public water supply well within one mile: yes no

If OWWO: old well information as follows:
Operator:
Well Name:
Comp. Date: Old Total Depth:

Depth to bottom of fresh water: 100
Depth to bottom of usable water: 160 180
Surface Pipe by Alternate: 1/2
Length of Surface Pipe Planned to be set: 250
Length of Conductor pipe required: 0
Projected Total Depth: 4480
Formation at Total Depth: MISSISSIPPI
Water Source for Drilling Operations: Well Farm Pond other

Directional, Deviated or Horizontal wellbore? yes no
If yes, true vertical depth:
Bottom Hole Location:

DWR Permit #:
Will Cores Be Taken?: yes no
If yes, proposed zone:

Exp. 8/11/97

AFFIDAVIT

200' Alt. I Req.

The undersigned hereby affirms that the drilling, completion and eventual plugging of this well will comply with K.S.A. 55-101, et. seq. It is agreed that the following minimum requirements will be met:

- 1. Notify the appropriate district office prior to spudding of well;
- 2. A copy of the approved notice of intent to drill shall be posted on each drilling rig;
- 3. The minimum amount of surface pipe as specified below shall be set by circulating cement to the top in all cases surface pipe

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Pusher Sally
SPUD DATE 3-29-97 INIT. MLLW

LENGTH SURFACE PLANNED 250'
RESERVE PIT STATUS- REMOVE FLUID LINED
after salt sect. bbls. when done bbls.

RATHOLED AHEAD? Y N SIZE HOLE
SURFACE PIPE 8 5/8 @ 361' CONDUCTOR
ANHYDRITE T- B- 600 ELEVATION

TD 4395 FORMATION

DRAN PIPE @ DV TOOL ALT II DONE
SX SX Y N

Arbuckle Plug @ Ft. W/ SX

Hug./Council @ Ft. W/ SX

Anhydrite Base @ 600 Ft. W/ 50 SX

1/2 Base Anyh. @ Ft. W/ SX

1/2, 1/2 Plug @ Ft. W/ SX

Bottom Surface @ 290 Ft. W/ 50 SX

40' Plug @ 40 Ft. W/ 10 SX

RAT HOLE CIRC/W 1/2 SX MOUSE HOLE W/ 10 SX

WATER WELL SX (Irr. Well Pond Haunting)

TECHNICIAN SPM DATE 4-4-97

TYPE OF CEMENT 60/cfo 670

STARTING TIME (AM/PM) DATE

COMPLETION TIME 5:30 (AM) PM DATE 4-6-97

CEMENT COMPANY Allied