

DAVID C NE NE *photo changed*
 #803 - BRITTON #1 ~~CSE NE~~ of Section 8-26S-18W, Edwards County, Kansas

George McKown (John Crowe Mobile #316-792-1113/Reg. Great Bend
 Drilling Contractor: DaMac Drilling Company, Inc. 4900' Mississippi
 Great Bend, Kansas 67530 (316-792-1353 and in Great Bend Area

Geologist: William G. Clement res. 264-3740 Investors:
 Wichita, Kansas Jayhawk Motel #316-723-2121 3/4 Wm P. Higgins
 Greensburg, Ks. Room #5360 G.N. Rupe

12/10/76 Ordered "Certificate of Title" from Richardson Abstract Company, Kinsley, Ks.
 12/16/76 Filed and mailed "Intent to Drill" with State Corporation Commission
 12/17/76 Received "Certificate of Title"
 12/20/76 Larry Beck/George Baize Oil Field Tractor Dirt/Great Bend called/talked Bill

12/24/76 Bill Clement advised moving in Tuesday, December 28th per Geo. McKown/DAMAC
 12/28/76 L-S will "run elevation" first of next week--have nothing in the area right now--okay GNF

12/29/76 8:45 a.m. Jim Crowe called "collect"/DAMAC
 Drig at 1178' at 7:00 a.m. Top ANHYDRITE 1249'
 Spudded at 12:30 p.m. on 12/28/76--drilled 334' of 12 3/4" hole
 15 Joints of 8 5/8" 24# Surface Casing 327.60' set at 334' K.B.
 cemented with 275 sacks regular cement 2% Gel, 3% CC.
 Plug down at 7:00 p.m. on 12/28/76. Survey at 334' = 1/2 degree
 (gave him Bill Clement's phone number in Ellsworth, Kansas - Garden Motel)
 2:00 p.m. Bill Clement going out on this Well--Lyle Thomas finishing ANDREWS #1 in
 Ellsworth Co., Kansas.

12/30/76 9:10 a.m. Bill Clement called in/drlg at 2533' at 7:30 a.m.
 No tops--started taking "drill time" at 2500' expecting a top at 2750'

12/31/76 11:30 a.m. Bill Clement called in/drlg at 2965' at 8:00 a.m.

| | Sec. 8 Britton #1 in 8 | Sec. 5 Brown #1 in 5 | Sec. 1 Bordewick "A" in |
|--------------|---------------------------|-------------------------|----------------------------|
| WREFORD | 2766' -576' | 2750' -560' | 2755' -571' |
| <u>Top ?</u> | 2910' -720' | 2890' -700' | 2902' -716' |
| Marker | 2567' -377' | | 2558' +374' |

Looking for the Langdon Sand at 3330'

Elevation: 2188' DF
 2190' KB

1/3/77 Called Laughlin-Simmons at noon - "surveyor" headed toward our area--but due to dense fog and slipper roads is questionable as to when would be there--was in NW part of Clark County (Minneola, Kansas) South of Dodge City, Kansas)

12:15 noon Bill Clement called in following info.

Drilling at 4341' at 12:00 noon - "no shows"

| | | | | |
|------------|-------|--------|--------|--------|
| TARKIO | 3384' | -1194' | -1178' | -1191' |
| TOPEKA | 3578' | -1388' | -1366' | -1386' |
| HEEBNER | 3969' | -1779' | -1760' | -1776' |
| BROWN LIME | 4103' | -1913' | -1893' | -1915' |

1/4/77 9:45a.m. Bill Clement called in
 Drlg at 4565 @ 7:00 a.m. (Interval to test--did not develop in this Well-no porosit
 BASE OF UPPER BLACK SHALE 4406 -2216' -2199 4401 or -2217'

#803 - DAVID BRITTON #1 - C NE NE of Section 8-26S-18W, Edwards County, Kansas

1/ 5/77 8:45 a.m. Bill Clement called Took test in MISSISSIPPI

DST #1 4658 - 4719' Gas to surface in 15 min at rate of 227 MCF on 3/4" choke
30 " 120

Open 30-45-1½ hrs. -60.

2nd Opening in 5 min. 100 MCF with 3/8" choke
35 " 116 and stabilized.

Shut in for hour then come out of the hole--probably be noon before they get out of the hole.

3:10 p.m. - John Cecil called - going to drill another 40'
for rathole to log through

RTD - 4759'

IF 176-185#
1510 1556
FF 93-185#
FST 1556#

1/7/77 2:00 p.m. - Bill Clement gave Electric Log Tops:

| | |
|-----------------|-----------------|
| WREFORD | 2761' or -571' |
| TARKIO | 3383' or -1193' |
| HEEBNER | 3960 -1776 |
| TOPEKA | 3575' or -1385' |
| BROWN LIME | 4105' or -1915' |
| LANSING | 4113' or -1923' |
| MISSISSIPPIAN | 4660' -2470' |
| KINDERHOOK SAND | 4748' or -2558' |
| RTD | 4840' |
| LTD | 4839' |

Running Casing

1/6/77 - John Cecil's completion report: DAMAC Drilling RTD 4840'

WELEX ran GR-Neutron-Gamma Density and Caliper LOGS. Ran bit to bottom, circulated 1½ hours and laid down drill pipe. Ran 121 Joints new 4½" 9½# ERW 8 Rd. Thd Casing with HALLIBURTON Guide Shoe; insert in 1st circulation; collar; Centralizers on 1st, 3rd, 5th and 7th collars and Rotating Scratchers from 4650' -75' and from 4588' - 4723' (4832.40' total). Set Shoe at 4836' Kelly Bushing. Circulated and rotated 30 minutes and rotated during displacement. HALLIBURTON pumped 500 gals. Mud-flush; 125 sacks 50-50 Pozmix with 10% Salt + .75% CFR-2; and displace with 77 bbls. 2% KCI Water. Plug Back Total Depth 4801'. Plug down at 2:30 p.m. 1/7/77.

Mohawk

1/13/77 Run casing log, perforating today.
1/14/77 11:00 a.m. Bill Clement talked to John Cecil--John on way to location.
Mohawk Drilling Inc. - perforating today.

mailed copy
John Cecil
1/14/77

**RUPE OIL COMPANY, INC.**

P.O. BOX 2273 • 434 OHIO, WICHITA, KANSAS 67201 • (316) 262-3748

#1 DAVID BRITTON - C NE NE of Section 8-26S-18W, Edwards County, Kansas

Drilling Contractor: DaMac Drilling Company, Inc.
Great Bend, Kansas

Geologist: William G. Clement
Wichita, Kansas

December 27, 1976 - Filed and mailed "Intent to Drill" with State Corporation Commission

December 27, 1976 - DaMac Drilling Company will be moving in Rotary Tools tomorrow.

December 29, 1976 - Drilling at 1175' at 7:00 a.m.

Spudded at 12:30 p.m. on 12/28/76--drilled 334' of 12 3/4" hole,
ran 15 Joints of 8 5/8" 24# Surface Casing (327.60') set at 334'
Kelly Bushing, cemented with 275 sacks Regular Cement, 2% Gel,
3% Calcium Chloride. Plug down at 7:00 p.m. on 12/28/76.

Top ANHYDRITE 1249' or +941'

December 30, 1976 - Drilling at 2533' at 7:30 a.m.

December 31, 1976 - Drilling at 2965' at 8:00 a.m. WREFORD 2766' or +576'

January 3, 1977 - Drilling at 4341' at 12:00 noon - "no shows"
TARKIO 3384' or -1194'
TOPEKA 3578' or -1388'
HEEBNER 3969' or -1779'
BROWN LIME 4103' or -1913'

January 4, 1977 - Laughlin-Simmons ran elevation yesterday:

2188' Derrick Floor

2190' Kelly Bushing

Drilling at 4565' at 7:00 a.m.

January 5, 1977 - Took DRILL STEM TEST #1 from 4658' - 4719' Tool open 30 minutes;
shut in 45 minutes; open 1 1/2 hours; shut in 60 minutes.

1st Opening: Gas to surface in 15 minutes rate of 227 MCF on 3/4" choke
30 minutes 120 MCF

2nd Opening: In 5 minutes gauged 100 MCF on 3/8" choke
35 minutes 116 MCF stabilized.

Recovered 140' Gas Cut Drilling Mud.

ISIP 1556# IFP 176=185# FFP 93-125# FSIP 1556#
Rotary Total Depth 4840'.

January 6, 1977 - DaMac Drilling Company's Rotary Total Depth 4840'.

WELEX ran Guard-Neutron-Gamma Density and Caliper Logs.
Ran bit to bottom, circulated 1 1/2 hours and laid down drill pipe.

Ran 121 Joints new 4 1/2" 9 1/2# ERW 8 Round Thread Casing with HALLIBURTON
Guide Shoe; Insert in 1st Collar; Centralizers on 1st, 3rd, 5th and 7th
Collars and rotating Scratchers from 4650' - 75' and from 4588' - 4723'.
(4832.40' total). Set Shoe at 4836' Kelly Bushing. Circulated and rotated
30 minutes and rotated during displacement.

HALLIBURTON pumped 500 gals. Mud-flush; 125 sacks 50-50 Pozmix
with 10% Salt + .75% CFR-2; and displaced with 77 bbls. 2% KCL Water.
Plug Back Total Depth 4801'. Plug down at 2:30 p.m. on 1/7/77.

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#1 DAVID BRITTON - C NE NE of Section 8-26S-18W, Edwards County, Kansas

Completion by John J. Cecil, Engineer

- January 14, 1977 - Rigged up MOHAWK DRILLING COMPANY'S Cable Tools.
Pressure tested Casing to 1200# with Joiner Pressure Truck.
WELEX ran Gamma Ray-Collar and Cement Bond Logs from
plug back total depth of 4793' to 4200'.
Top of Cement at 4430' with good bond throughout Interval.
Swabbed Casing to 2770'.
Perforated KINDERHOOK SAND from 4774' - 94' with 1 DP/ft.
Shut in and shut down overnight.
- January 15, 1977 - No pressure, no fill-up in Casing. Swabbed down to 4400',
waited 30 minutes, no fill-up, no gas. Ran bailer to clean out
bottom--small amount of cement tailings. Ran 2 joints Tail Pipe;
Baker Model R-3 Packer; 8' Sub; 2 1/16" x 1 1/2" Seating Nipple;
147 joints 2 1/16" 3.25# C-W i.j. Tubing plus 16.20' Subs
(4797.86' total). Set at 4800', 2' off bottom (tagged at 4802').
Packer released at 4732'.
Shut in and shut down over Sunday.
- January 17, 1977 - Tubing Pressure 0, slight pressure on Casing, blew down to 0.
HALLIBURTON pumped 24,000 SCF N₂ in Casing to unload hole,
Casing Pressure increased to 1000#, but would not circulate--Tubing
apparently plugged. Blew Casing down and pumped N₂ in Tubing--
circulated at 1200# and unloaded estimate 6 bbls. Water--blew dry.
Set Packer. Pressured Casing to 1000# with N₂, pumped 1 bbl.
7½% MCA, 500 gals. Regular HF, 250 gals. 7½% MCA and 3 Bbls.
KCL water with 500 SCF Bbls. N₂ at 3 Bbls. per minute.
Displaced with 15,000 SCF N₂. Maximum pressure 2150#,
average treating pressure 2100#, Initial Shut In Pressure (Acid)
1200#, Initial Shut In Pressure (N₂) 1800#. 30 minutes Shut In Tubing
Pressure 1700#. Opened to pit and Well unloaded estimate 20 Bbls.
Acid Water, after 2 hours decreased to slight blow of N₂. Released
Packer, but 1000# on Casing would not unload Tubing. Ran swab to
2700', made 1 pull and Well unloaded 2 bbls. Water. Total out 22 Bbls.
(5 under load) Casing Pressure 1000#. Shut in and Shut down overnight.
- January 18, 1977 - Casing Pressure 1000# (N₂). Swabbed estimate 15 bbls. per hour,
specific gravity 1.085 PH₄, Salt Water with trace of oil. Fluid level
initially 1200', lowered to 2000' in 3 hours with Casing Pressure dropping
to 800# (some N₂ with Water). Total out estimate 53 Bbls. (26 bbls.
over load) with Casing Pressure 750# when N₂ came around and unloaded
estimated 20 Bbls. Salt Water, blew down to 230# and died.
Shut in and shut down overnight.
- KINDERHOOK



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#1 DAVID BRITTON - C NE NE of Section 8-26S-18W, Edwards County, Kansas

Completion by John J. Cecil, Jr., Engineer

- January 19, 1977 - Waited three (3) hours on Tubing crew. Pulled Tubing and Packer. WELEX set Speed-E-Line Bridge Plug at 4750'. Swabbed Casing dry. WELEX perforated MISSISSIPPI from 4684' - 98' with 1 DP/foot. Shut in and shut down overnight.
- January 20, 1977 - Casing Pressure 80#, Orbit Valve leaking. Blew down, ran swab -- 1/2 barrel water. Ran 2 1/16"x1.50 Seating Nipple on 145 Joints 2 1/16" 3.25# CW-55 i.j. Tubing (4699.96' total) set at 4701'. HALLIBURTON pumped 30,000 SCF N₂ in Casing to displace hole (1/2 bbl water); pulled 1 joint Tubing, set at 4669' (dumped 1 bbl. 15% MCAcid in Tubing to spot across perforations before pulling joint of Tubing). Pumped 66,500 SCF N₂ to attain Bottom Hole Tubing Pressure (Casing Pressure = 1350#); 1000 gals. 15% MCAcid with 500 SCF N₂/B at 3 bbls. per minute. Maximum Tubing Pressure 3100#, average treating pressure 3000#, Initial Shut In Pressure acid 1750#; displaced with 15,000 SCF N₂ at 2900 SCF/minute; Initial Shut In Pressure N₂ 2200#. Dropped 3 stages of 7/8" balls with 4 in each stage--did not indicate pressure increase. 30 minute Shut In Casing Pressure 1240#, Tubing Pressure 1420; opened Tubing to pit and Well unloaded acid water with N₂ and gas. After 3 hours estimated 400 MCF per day with N₂ and heavy fog of Acid Water. Shut in and shut down overnight.
- January 21, 1977 - 14 hours Shut In Casing Pressure 1370# (assuming a dry well bore, calculated Bottom Hole Pressure = 1535#). Shut In Tubing Pressure 1300#. Opened through 3/8" then 3/4" choke, heavy fog of Acid Water. After 3 hours appeared to stabilize with Casing Pressure = 185#, Tubing Pressure = 50#, flowing heavy mist of Acid Water. Gauged stabilized flow of 825 MCF per day. Released Rig. Shut in Well. Will blow periodically prior to frac.

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#1 DAVID BRITTON - C NE NE of Section 8-26S-18W, Edwards County, Kansas

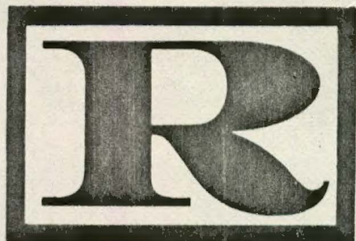
Electric Log Tops:

| | |
|--------------------|-----------------|
| Wreford | 2761' or -571' |
| Tarkio | 3383' or -1193' |
| Heebner | 3966' or -1776' |
| Topeka | 3575' or -1385' |
| Brown Lime | 4105' or -1915' |
| Lansing | 4113' or -1923' |
| Mississippian | 4660' or -2470' |
| Kinderhook Sand | 4748' or -2558' |
| Rotary Total Depth | 4840' |
| Log Total Depth | 4839' |

January 24, 1977 Shut In Casing Pressure 1390#, Shut In Tubing Pressure 1380#. Blew Tubing through 3/8" to 3/4" Choke; Heavy fog to light mist of Acid and Salt Water for 2 hours, Casing Pressure nearly stabilized @ 200#, estimate 850 MCF/per day. Shut In.

January 25, 1977 Shut In Casing Pressure 1385#. HALLIBURTON pumped 1000 gals. PAD of Gelled 2% KCL Water; 1000 gals. wf 1/2 parts per gallon 20-40 Sand; 2000 gals. wf 3/4 parts per gallon; 3000 gals. with 1 part per gallon; 1000 gals. with 1 1/2 parts per gallon; 2500 gals. with 1 part per gallon 10-20 Sand and flushed with 500 gals.; all with 500 SCF N₂ per Barrel at 10 bbls. per minute liquid rate. Displaced with 50,000 SCF N₂ at 8000 SC/per minute (9.7 bbls. per minute equivalent rate). Maximum pressure 2450#, average pressure 2200#; Initial Shut In Pressure Liquid 2050; Initial Shut In Pressure N₂ 2350#. Total load 11000 gallons 2% Gelled KCL Water; 6500# 20-50 Sand; 2500# 10-20 Sand; 182,000 SCF N₂. 60 minutes Shut In Casing Pressure 1500#, Shut In Tubing Pressure 1545#. Opened Tubing through 1/4" to 3/8" Choke --unloaded frac water and N₂ to pit. After 5 hours Casing Pressure=1295#, Flowing Tubing Pressure=1000#; surging heavy fog of frac water through 1/4" Choke. Gauged stabilized flow of 3450 MCF/per day. 15 minutes Shut In Casing Pressure 1330#; Shut In Tubing Pressure 1360#.

below - never released
January 26, 1977 Shut In Casing Pressure 1345#, Shut In Tubing Pressure 1380#. Opened Tubing through 1/4" choke, after 3 hours gauged 3595 MCF/per day with Casing Pressure = 1280#; Flowing Tubing Pressure = 1080#, blowing heavy fog of load water with trace of Oil. Assuming a slope of 1.0, the CAOF would be approximately 29 MMCF/per day Shut In for 'testing'

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#1 DAVID BRITTON - C NE NE of Section 8-26S-18W, Edwards County, Kansas

Completion by John J. Cecil, Jr., Engineer

January 19, 1977 - Waited three (3) hours on Tubing crew. Pulled Tubing and Packer. WELEX set Speed-E-Line Bridge Plug at 4750'. Swabbed Casing dry. WELEX perforated MISSISSIPPI from 4684' - 98' with 1 DP/foot. Shut in and shut down overnight.

January 20, 1977 - Casing Pressure 80#, Orbit Valve leaking. Blew down, ran swab--1/2 barrel water. Ran 2 1/16"x1.50 Seating Nipple on 145 Joints 2 1/16" 3.25# CW-55 i.j. Tubing (4699.96' total) set at 4701'. HALLIBURTON pumped 30,000 SCF N₂ in Casing to displace hole (1/2 bbl water); pulled 1 joint Tubing, set at 4669' (dumped 1 bbl. 15% MCAcid in Tubing to spot across perforations before pulling joint of Tubing). Pumped 66,500 SCF N₂ to attain Bottom Hole Tubing Pressure (Casing Pressure = 1350#); 1000 gals. 15% MCAcid with 500 SCF N₂/B at 3 bbls. per minute. Maximum Tubing Pressure 3100#, average treating pressure 3000#, Initial Shut In Pressure acid 1750#; displaced with 15,000 SCF N₂ at 2900 SCF/minute; Initial Shut In Pressure N₂ 2200#. Dropped 3 stages of 7/8" balls with 4 in each stage--did not indicate pressure increase. 30 minute Shut In Casing Pressure 1240#, Tubing Pressure 1420; opened Tubing to pit and Well unloaded acid water with N₂ and gas. After 3 hours estimated 400 MCF per day with N₂ and heavy fog of Acid Water. Shut in and shut down overnight.

January 21, 1977 - 14 hours Shut In Casing Pressure 1370# (assuming a dry well bore, calculated Bottom Hole Pressure = 1535#). Shut In Tubing Pressure 1300#. Opened through 3/8" then 3/4" choke, heavy fog of Acid Water. After 3 hours appeared to stabilize with Casing Pressure = 185#, Tubing Pressure = 50#, flowing heavy mist of Acid Water. Gauged stabilized flow of 825 MCF per day. Released Rig. Shut in Well. Will blow periodically prior to test.

*instead of frac.**1/27/77**END.*

1/27/77 - Mailed copy like this to
Ray E. Dillion
Dan Morgen
wf letter 1/27/77



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#1 DAVID BRITTON - C NE NE of Section 8-26S-18W, Edwards County, Kansas

1st Delivery of Gas

John J. Cecil, Engineer

December 12, 1977 - Shut In Casing Pressure 1360#, Shut In Tubing Pressure 1380#.

Put on line at 750 MCF per day.

December 13, 1977 - Flowing Casing Pressure 1325#, Flowing Tubing Pressure 1225#

D = 45 ^{inches} minutes, Line Pressure = 300#; rate = 780 MCF per day;
produced $1\frac{1}{2}$ bbls. fluid, estimate 60% oil.

December 14, 1977 - Flowing Casing Pressure 1310#, Flowing Tubing Pressure 1230#

D = 40 ^{inches} minutes, Line Pressure 350#; rate = 780 MCF per day,
produced 15 Bbls. Fluid, estimate 60% Oil, water Specific Gravity
1.080, Mississippi Water.

(D = means Differential: The differential pressure measured across
an Orifice due to a flow of gas through
that Orifice. Units of measurements are
usually inches of water (column)./John Cecil, Jr.

January 2, 1978 - Setting 'Tank Battery' - shut Well in to install Tank Battery from

1/17 - 24/78

shut Well in to set Heater-Treater

Rupe Oil Co, Inc

REC'D MAY 24 1977

Testing

Britton No 1
NE Sec 8 - 26S-18W
Edwards County, Kans

5-23-77: Kansas-Nebraska ran 4-point Open-Flow test with following field data: (1 hr points)

| <u>GP</u> | <u>TP</u> | <u>orifice</u> | <u>flow rate</u> |
|-----------|-----------|----------------|------------------|
| 1366 | 1366 | — | S I P |
| 1345 | 1293 | 1/4" | 2084 mcfpd |
| 1326 | 1187 | 5/16" | 2850 |
| 1306 | 1077 | 3/8" | 4038 |
| 1282 | 988 | 7/16" | 4745 |

Estimated CAOF from 4 pt test is 28 MMCFPD.

Left on 1 pt test overnight through
1/8" orifice at 380 mcfpd rate.

John Cecil Jr

Copy

Rupe Oil Co., Inc.

Production

Britton No 1
C NENE Sec 8 - 26S-1BW
Edwards County, Kansas

DEC 8 1979

12-5-79: RU Clarke Well Service Unit - too windy
to pull rods, SDON.

12-6-79: Pulled rods & pump. Ran New Dresser
2" x 1 1/2" x 12' BWD, TP, double-valved metal
insert pump on rods same way. Hung on
& started pumping unit, could not space out -
had let unit out in 54" stroke. Took
out 1-2' pony rod, 2-6' pony rods in. Spaced
out & hung on. moved rig to Titus No 1.

John Carl

mailed copy to
Junker
12/10/79

Rupe Oil Co, Inc.

Britton No 1

C N E NE Sec 8-26 S-18 W

Edwards County, Kansas

DEC 13 1979

Production

12-7-79: Well not pumping - could be pounding fluid - bottom hole separator possibly plugged. Lackey pump truck pumped 26 Bbl SW in tbq, after unseating pump, pressure then increased to 1000 psi. Reseated pump & hung back on beam - pumped good for 2 min then quit. Pumped 15 Bbl SW @ Nalco 47-C in Annulus & SDOW.

12-10-79: RU Clarke Well Service Unit. Pulled rods & pump. worked on rig 3 hrs. Pulled 60 jts tbq. Tagged PBTD @ 4742 before pulling tbq, 44' of rat hole below perfs (apparently 8' of fillup over CIBP @ 4750'. SDON.

12-11-79: Too windy to pull tbq. SD.

John Center

mailed copy
Inventory
12/13/79

Rupe Oil Co, Inc.

Production

Britton No 1

C NE NE Sec 8-26S-18W

Edwards County, Kansas DEC 15 1979

12-12-79; Swabbed tbg dry to avoid pulling wet.
Pulled 3 jts tbg when air line blew out on rig.
Shut-down for repairs.

12-13-79: Pulled rest of tbg, anchor, & BHS.

BHS plugged @ scale & rust. Ran back
Baker B-2 anchor-catcher; 1 25/32" Seating
nipple; & 159 jts tbg (4712 95' total).

Anchor would not set, left tbg swinging
@ bottom of anchor @ 4717' & SN @ 4712'.

Ran back same Dresser 2" x 1 1/2" x 12', BHD,
TP, metal insert pump on 187 rods; 1 1/4" x
16' polish rod @ 1 1/2" x 6' liner. Spaced out & hung
on - good pump action, started pumping unit,
R D.

John Smith

mailed copy Inactive
12/17/79

ORIFICE METER INSPECTION REPORT

ANSAS - NEBRASKA NATURAL GAS CO., INC

Date 6-26-1980

Company Rope

Station Name & Location Britton #1 8-26-18

Measuring Station # 112710 119000 # 19

Meter Co. No. 33773 Type Connections FLANGE

Meter Mfg. No. 145767 Chart Range 100"

Meter Make American Clock Rotation 7-D

Static Source 1000 # 51980 Plate Size 2 x 750

Mic. Readings-Upstream _____ Downstream _____

Blind Disc in By-Pass III

Penarc O.K

Shut in Test +6

TEMPERATURE GAUGE

Make AMERICAN

Serial No. 145767

Chart Range -40°F to 160°F

Clock Rotation 7-D

STATIC PRESSURE TEST

FOUND

LEFT

| TEST GAUGE | STATIC SPRING | TEST GAUGE | STATIC SPRING |
|--------------|---------------|--------------|---------------|
| <u>370 #</u> | <u>370 #</u> | <u>370 #</u> | <u>370 #</u> |

FOUND

LEFT

| TEST | RECORDER | TEST | RECORDER |
|------------|------------|------------|------------|
| <u>103</u> | <u>103</u> | <u>103</u> | <u>103</u> |

DIFFERENTIAL TEST

FOUND

LEFT

| UP | | DOWN | | UP | | DOWN | |
|------------|----------|-----------|----------|--------|-------|--------|-------|
| U-TUBE | GAUGE | U-TUBE | GAUGE | U-TUBE | GAUGE | U-TUBE | GAUGE |
| <u>0</u> | <u>✓</u> | <u>30</u> | <u>✓</u> | | | | |
| <u>14</u> | <u>✓</u> | <u>43</u> | <u>✓</u> | | | | |
| <u>24</u> | <u>✓</u> | <u>34</u> | <u>✓</u> | | | | |
| <u>34</u> | <u>✓</u> | <u>34</u> | <u>✓</u> | | | | |
| <u>43</u> | <u>✓</u> | <u>14</u> | <u>✓</u> | | | | |
| <u>50</u> | <u>✓</u> | <u>0</u> | <u>✓</u> | | | | |
| <u>100</u> | <u>✓</u> | | | | | | |

PLATE CHANGE

Time _____ AM
PM

Out _____ X

In _____ X

Condition _____

Specific Gravity _____

BTU _____

Remarks Installed New Center Plate

Installed Range spring & Calibrated Meter

New Bellows Serial # FS 89922

T. McNamee

K186 Witness Inspector

mailed copy John Cecil 7/7/80

ORIFICE METER INSPECTION REPORT

NSAS - NEBRASKA NATURAL GAS CO., INC.

2 1978

Date

10-19-78

Company

Rupe

Station Name & Location

Britten #1

8-26-18

Measuring Station #

112710

Meter Co. No.

33773

Type Connections

Flange

Meter Mfg. No.

145767

Chart Range

100

Meter Make

American

Clock Rotation

70

Static Source

1000

Plate Size

2 X 1.000

Mic. Readings-Upstream

Downstream

Blind Disc in By-Pass

Penarc

20 min Fast

Shut in Test

OK

TEMPERATURE GAUGE

Make

American

Serial No.

145767

Chart Range

-40-160°F

Clock Rotation

70

STATIC PRESSURE TEST

FOUND

LEFT

FOUND

LEFT

TEST GAUGE

STATIC SPRING

TEST GAUGE

STATIC SPRING

TEST

RECORDER

TEST

RECORDER

227

230

227

227

79

69

79

79

DIFFERENTIAL TEST

FOUND

LEFT

UP

DOWN

UP

DOWN

U-TUBE

GAUGE

U-TUBE

GAUGE

U-TUBE

GAUGE

U-TUBE

GAUGE

0

✓

32

✓

0

✓

4

✓

16

✓

8

✓

8

✓

8

OK

8

OK

16

✓

32

✓

0

✓

32

✓

46

✓

46

✓

PLATE CHANGE

Time

AM
PM

Out

X

In

X

Condition

Specific Gravity

BTU

Remarks

Corrected Penarc & Static & Temp
Temp. plate

K186

Witness

Inspector

Paul 11/14/78
mated up by John

ORIFICE METER INSPECTION REPORT

KANSAS - NEBRASKA NATURAL GAS CO., INC.

Date DEC 5 - 1978

Company RUPP

Station Name & Location 8-26-18 - ROUTE 201

Measuring Station # _____

Meter Co. No. 33773 Type Connections FLS

Meter Mfg. No. 145762 Chart Range 100

Meter Make WESCO Clock Rotation 70

Static Source 1000 Plate Size 2 X 1000

Mic. Readings-Upstream 2.066 Downstream 2.068

Blind Disc in By-Pass _____

Penarc _____

Shut in Test _____

TEMPERATURE GAUGE

Make _____

Serial No. _____

Chart Range 40-160

Clock Rotation _____

STATIC PRESSURE TEST

FOUND

LEFT

FOUND

LEFT

TEST
GAUGE

STATIC
SPRING

TEST
GAUGE

STATIC
SPRING

TEST

RECORDER

TEST

RECORDER

DIFFERENTIAL TEST

FOUND

LEFT

UP

DOWN

UP

DOWN

U-TUBE GAUGE

U-TUBE GAUGE

U-TUBE GAUGE

U-TUBE GAUGE

PLATE CHANGE

Time _____ AM
PM

Out X

In X

Condition _____

Specific Gravity _____

BTU _____

Remarks 2" Run # 45551

K186

Witness

Inspector

Date 10-23-79Company PopeStation Name Location Britten #1 8-18Measuring Station # 112710 Unigoo # 19Meter Co. No. 33773Type Connections FlangeMeter Mfg. No. 145767Chart Range 100"Meter Make AMERICANClock Rotation 7-DStatic Source 1000#Plate Size 2 x 750

Mic. Readings-Upstream

Downstream

Blind Disc in By Pass

Penarc 10 min. slowShut in Test 7.2

TEMPERATURE GAUGE

Make AMERICANSerial No. 145767Chart Range -40° to +160°FClock Rotation 7-D

STATIC PRESSURE TEST

FOUND

LEFT

TEST
GAUGESTATIC
SPRINGTEST
GAUGESTATIC
SPRING

FOUND

LEFT

TEST

RECORDER

TEST

RECORDER

377

362

377

377

74°

72°

74°

74°

DIFFERENTIAL TEST

FOUND

LEFT

UP

DOWN

UP

DOWN

U-TUBE GAUGE U-TUBE GAUGE U-TUBE GAUGE U-TUBE GAUGE

9 24 24 14 24 14 24 14

24 14 24 14 24 14 24 14

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PLATE CHANGE

Time

Out

In

Condition

Specific
Gravity

BTU

GAM
CPMGAM
CPMGAM
CPMGAM
CPMGAM
CPMGAM
CPMGAM
CPMGAM
CPMGAM
CPMGAM
CPMGAM
CPMGAM
CPMGAM
CPMGAM
CPMGAM
CPMGAM
CPMGAM
CPMGAM
CPMRemarks Corrected Penarc, Static & Temp

186

Witness

Inspector

MOHAWK DRILLING, INC.

P. O. Box 1362 1135 Highway 281 By-Pass

GREAT BEND, KANSAS 67530

Phone 316 792-4531

INV. # 249

Terms: Net 30 days
balance due over 30
days will be charged
interest @ rate of
1 1/2% per mo.

To: Glen N. Rupe
Box 2273
Wichita, Kansas 67201

January 13 thru January 21, 1977

Date January 24, 1977

Edwards County

David Britton #1 - New Well

| | | |
|---|---|--|
| 1-13-77 | Moved unit and tools. Company trucks. Tried to set in rig. Trucks got stuck. | \$ 150.00 |
| 1-14-77 | Tregallis cat helped to set cable tool rig. Rigged up Cable Tools. Rigged up Welex to log and perf. Swabbed hole down 3000' from top. Put on Mohawk master gate. Perf. from 4774' to 4794'. Tore down Welex. Shut master gate. (1) 4 1/2" Oil States Swab Cup @ \$19.00 each. Rental - Master Gate Rigging up time - 5 Hours @ \$46.00 per hr. Unit time - 6 Hours @ \$46.00 per hr. | \$ 19.00 \$ 35.00 \$ 230.00 \$ 276.00 |
| 1-15-77 | Swabbed hole down to 4400' from top. Ran bailer & spooled over sand line from reserve side to working side of devider so we could reach T.D. Bailed hole clean on bottom. Ran 4800' of 2 1/16" stream-lined tbgs. with set down packer, 2 jts. off bottom, 1' seating nipple above packer - full opening packer. (1) 4 1/2" Oil States Swab Cup @ \$19.00 each. Unit time - 11 Hours @ \$46.00 per hr. | \$ 19.00 \$ 506.00 |
| 1-17-77 | No pressure on well. Halliburton treated well with 500 gals. of M.C.A. acid & 500 gals. of H.F. acid with liquid nitrogen. Unit time - 11 Hours @ \$46.00 per hr. | \$ 506.00 |
| 1-18-77 | Rigged up lubricator and tbgs. swab to swab 2 1/16" tbgs. Fluid down 1200' from top; swabbed down to 2300' from top. Well flowed until nitrogen pressure was gone off of csg. Well dead. (1) Guiberson Hydraulic 3/8 to 5/8" Oil Saver Rubber @ \$4.38 each. Unit time - 10 Hours @ \$46.00 per hr. | \$ 4.38 \$ 460.00 |
| 1-19-77 | Pulled tbgs. and packer. Rigged up Welex. Set bridge plug @ 4750'. Fluid 2700' from top. Swabbed hole dry through 4 1/2" csg. Tested dry. Welex perf. Shut well in. Unit time - 12 Hours @ \$46.00 per hr. | \$ 552.00 |
| 1-20-77 | Well had 80 lbs. of pressure on csg. Bled pressure off. Ran csg. swab to bridge plug @ 3750' - hole dry. Took off master gate and put on head. Ran 145 jts. of 2 1/16" tbgs. with seating nipple on bottom - tbgs. open ended. Halliburton treated well with 1000 gals. of acid and liquid nitrogen. Unit time - 10 Hours @ \$46.00 per hr. | \$ 460.00 |
| 1-21-77 | Flowed well until 10:00 AM. Tore down cable tools. Hauled rental tools back to Rucker at Great Bend, Unit time - 10 Hours @ \$46.00 per hr. | \$ 460.00 |
| Sub-Total: | | \$ 3,677.38 |
| New Well, tax on materials & rental: | | 3% Kansas Sales Tax: \$ 2.32 |
| INVOICE TOTAL: | | \$ 3,679.70 |

"THANK YOU"

copy