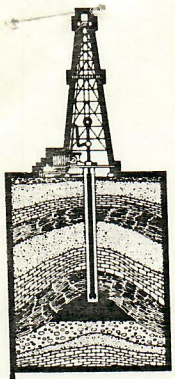

BILL T. WOMACK
Petroleum Consultant
42 West Ellsworth Avenue
P.O. Box 9406
Denver, Colorado 80223
(303) 733-1597

GEOLOGICAL WELL REPORT

TEXAS OIL & GAS CORPORATION

BAILEY "D" NO. 1 WELL

se nw nw sec. 34-T25s-R45w

Prowers Co., Colorado

4058' K. B.

BARREL SPRINGS FIELD

Bill T. Womack
Petroleum Consultant
43 W. Ellsworth Ave.
Mailing Address:
Box 9406
Denver, Colorado 80223
Telephone: 1-303-733-1597

Date: December 22, 1982

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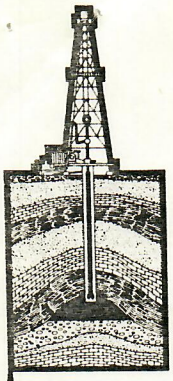


BILL T. WOMACK
Petroleum Consultant
42 West Ellsworth Avenue
P.O. Box 9406
Denver, Colorado 80223
(303) 733-1597

December 22, 1982

Texas Oil & Gas Corporation
1800 Lincoln Center Bldg.
1600 Lincoln St.
Denver, Colorado 80264

Attention: Ms. Emily Hundley-Goff

Re: Texas Oil & Gas Corporation
Bailey "D" No. 1 Well
se nw nw sec. 34
T25s; R45s
Prowers Co., Colorado

Dear Ms. Hundley-Goff,

Attached the Geological Well Report & Sample Log on the aforementioned well.

Samples were examined for oil shows from 3000' to 5240'.

CONCLUSION:

No shows were obtained in the samples from 3000' to 4802'.

Morrow-4802 (-744')- 68' high to the prognosis, and 14' high to the Appling #1 well.

Morrow Pay Sd-4836' (-778')- 58' high to the prognosis, and 18' high to the Appling No. 1 well. A good drilling break occurred from 4839' to 4869'. Samples were circulated at 4880'. Sample recovery was a white, colorless to pale blue, fine to coarse grained, subrounded translucent, loose sandstone, with good lite yellow mineral fluoresence, with no cut. Instructions were received to drill to 4930' before testing. A Drill Stem Test across the sand recovered 540' of Gas in the drill pipe, and 23' of gas cut drilling mud.

The Mississippean limestone, at 5176', was penetrated 59', with no shows.

FINAL:

Casing was run in the well.

Sincerely,

Bill T. Womack

TXO

TXO PRODUCTION CORP.

DENVER DISTRICT
INTER-OFFICE MEMORANDUM

Date: August 19, 1982

To: Steve Tillman

From: Rich Asher

Re: Bailey D #1
NW Section 34-T25S-R45W
Barrel Springs Field
Prowers County, Colorado

The Las Animas Arch is a major northeast-southwest structure feature in southeast Colorado that separates the D-J Basin and the Hugoton Embayement. The Bailey D #1 is located on the southwestern flank of the Las Animas Arch. The Bailey D #1 will be a 5300' test of the Upper Morrow.

The proposed location is within the spaced area of Barrel Springs Field. The Upper Morrow sand at Barrel Springs is a large point bar deposit that coincides with a Morrow structural high. The Morrow is a transgressive sequence of sands, shales, and scattered limestones that were deposited across a very broad low angle floodplain. The major drainage patterns during this time were oriented in a northwest-southeast direction. The main pay at Barrel Springs Field is the Upper Morrow which has produced 5 billion cubic feet of gas, 26,000 barrels of oil and 36 barrels of water.

The Bailey D #1 will be 50' lower than the Michigan-Wisconsin #1 Jon Appling Etal (NE Section 34-T25S-R45W) which had an initial production rate of 61 MCFD from perforations at 4869-80. The #1 Jon Appling has a cumulative production of 733 million cubic feet of gas. The Bailey D #1 will have 13' of gross Upper Morrow sand as does the #1 Jon Appling.

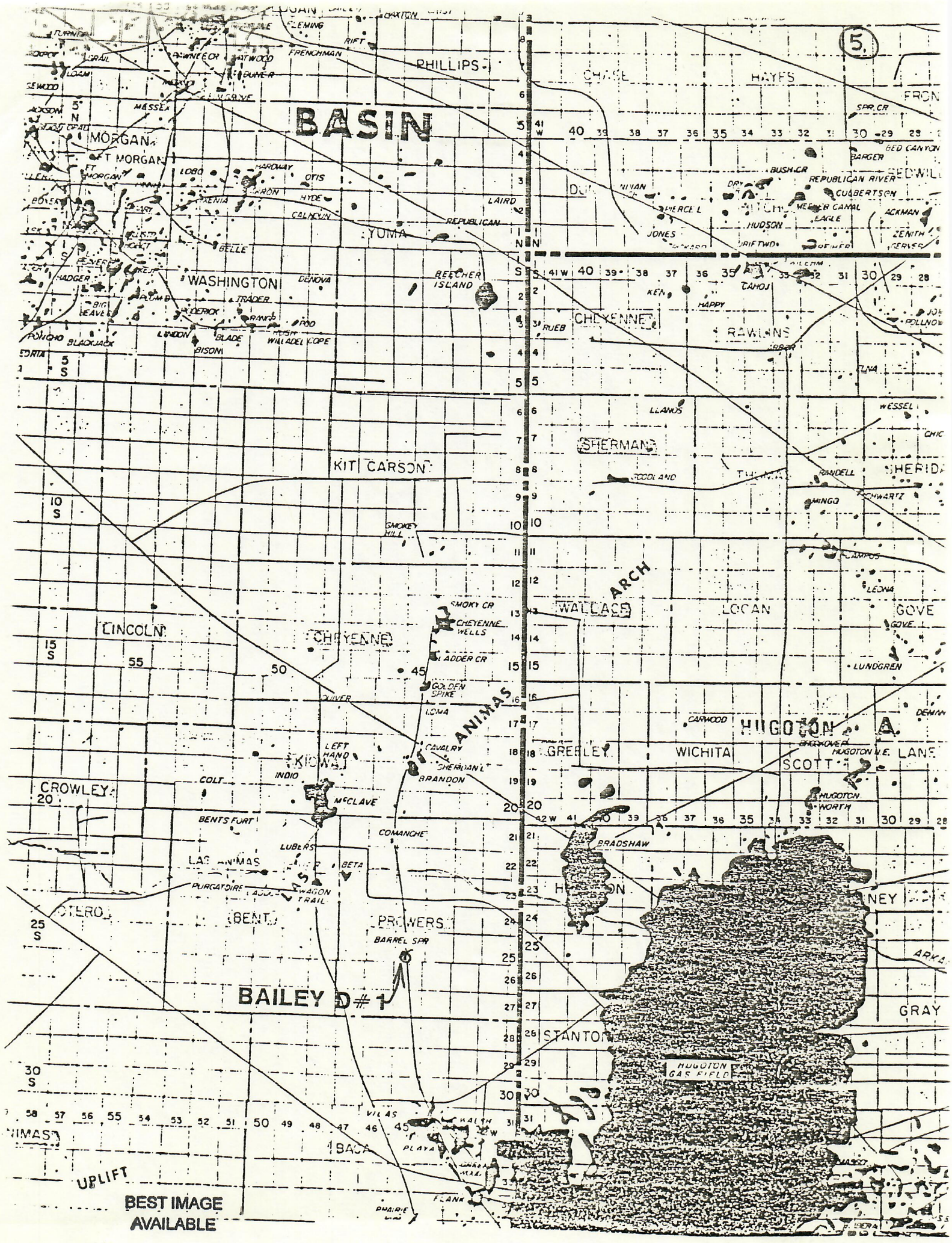
Included are the following:

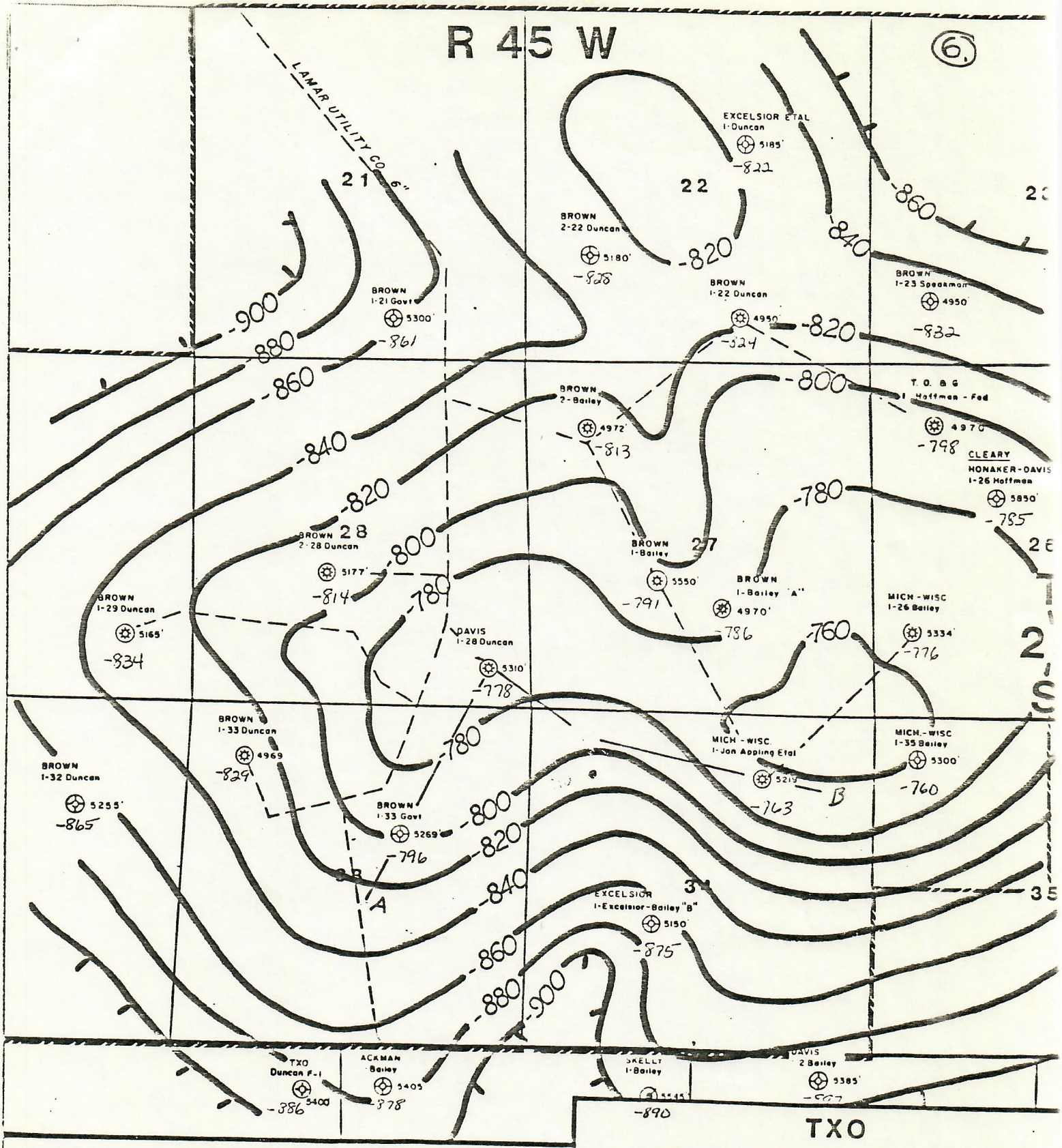
1. Regional Index Map
2. Morrow Structure Map
3. Upper Morrow Gross Sand Isopach
4. Production Map
5. Type Log
6. Stratigraphic Cross-Section A-B

Rich Asher
Rich Asher

RLA/cjd

Attachments


5
BASIN
MORGAN
FT MORGAN
PHILLIPS
CHASE
HAYES
YUMA
WASHINGTON
BEECHER ISLAND
CHEYENNE
RAWLINS
KIT CARSON
SHERMAN
LINCOLN
CHEYENNE
WALLACE
LOGAN
GOVE
ARCH
ANIMAS
HUGOTON
GREELEY
WICHITA
SCOTT
KIOWA
CROWLEY
BENT
PROWERS
LAS ANIMAS
STANTON
GRAY
BAILEY D #1
HUGOTON GAS FIELD
UPLIFT
BEST IMAGE AVAILABLE



LEGEND

COMPANY
Well Name
TD
Morrow Subsea Top

BEST IMAGE AVAILABLE

TXO

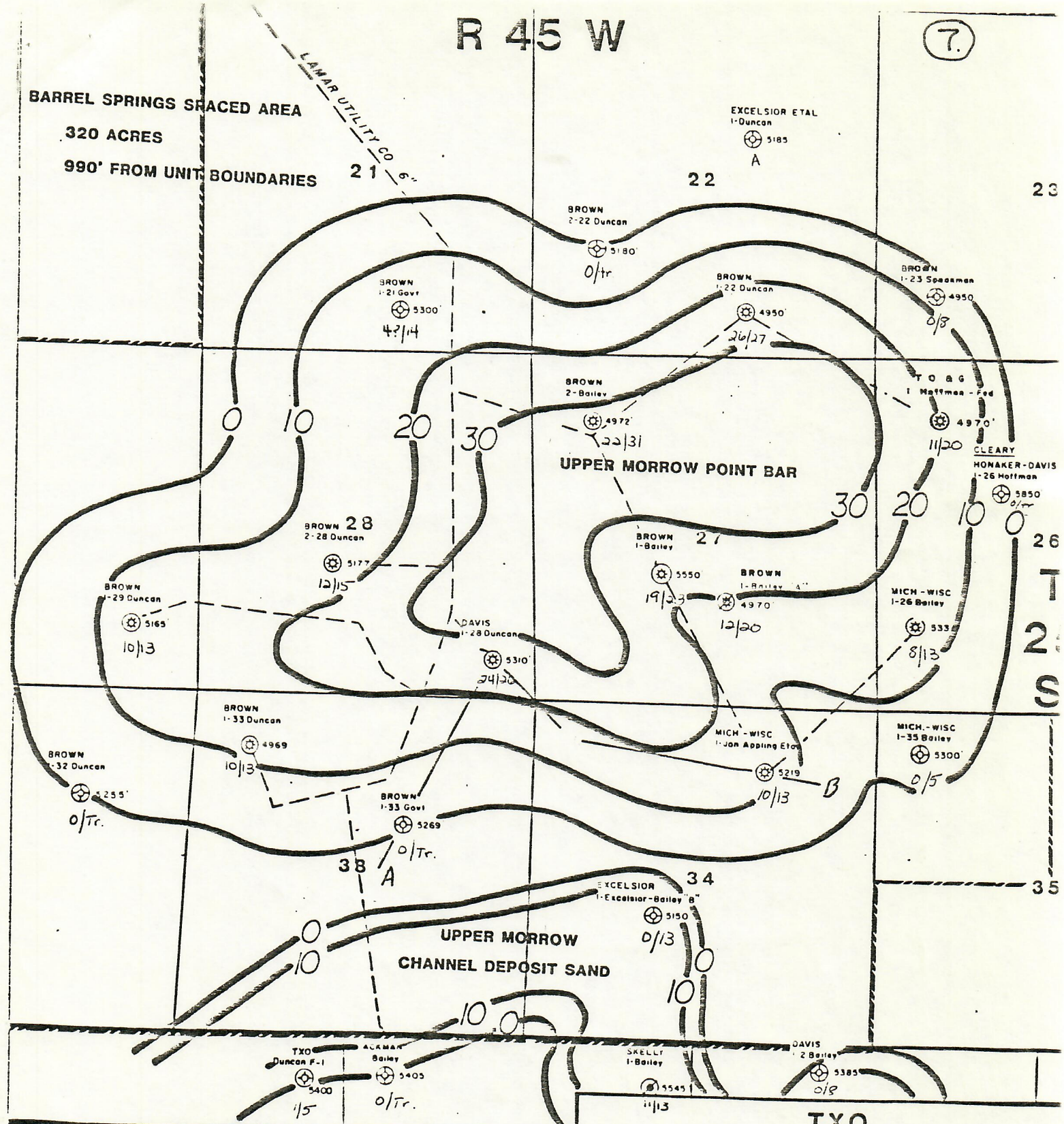
TXO PRODUCTION CORP.
DENVER DISTRICT

BARREL SPRINGS FIELD
PROWERS CO., COLORADO

MORROW STRUCTURE

Scale: 1"=2000'
C.I.: 20'

Geologist: R.L. Asher
Date: January 1982



LEGEND

COMPANY
Well Name
TD
≥8% Porosity / Gross Sand

BEST IMAGE AVAILABLE

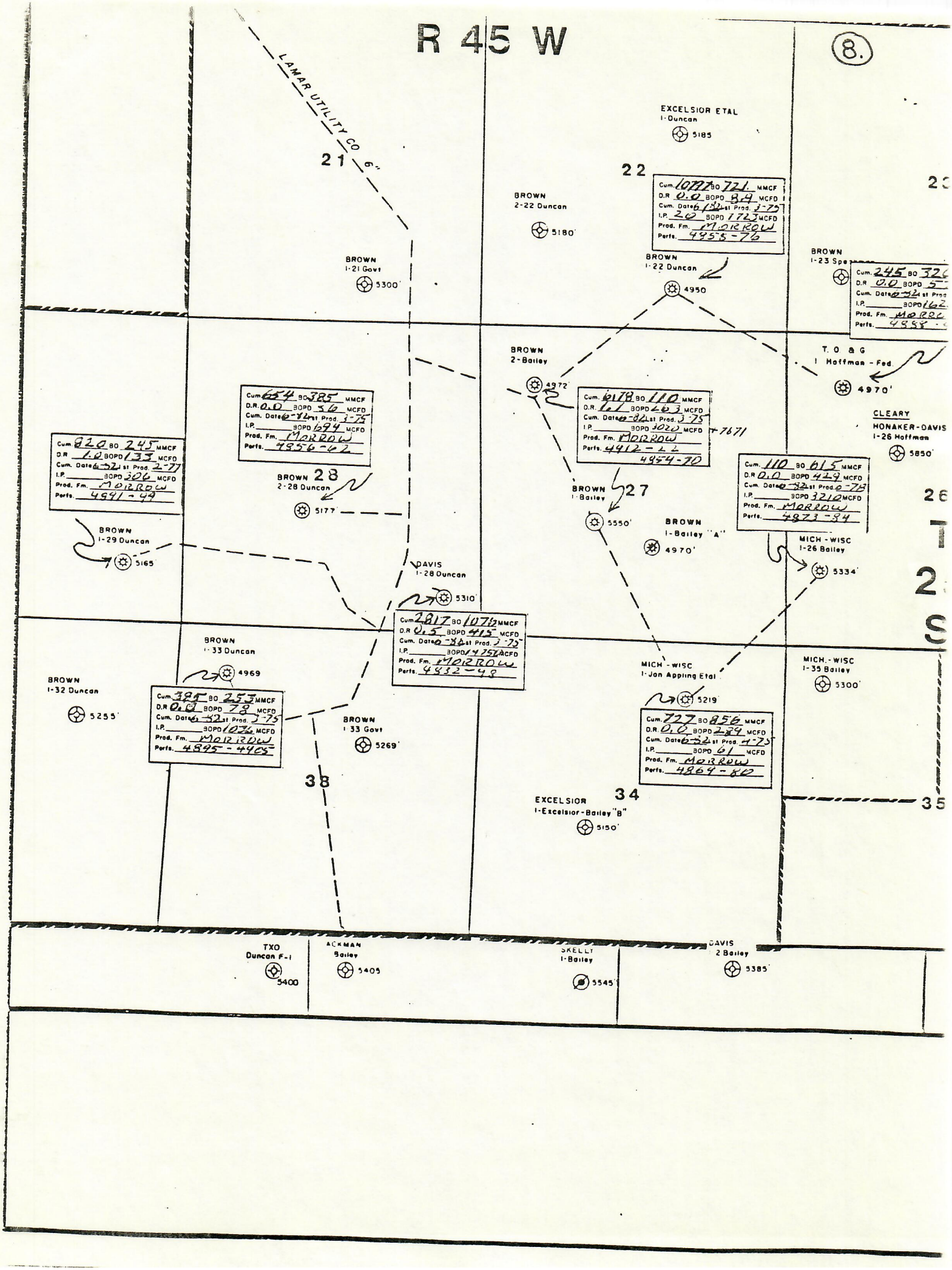
TXO

TXO PRODUCTION CORP.
DENVER DISTRICT

BARREL SPRINGS FIELD
PROWERS CO., COLORADO

GROSS SAND ISOPACH OF UPPER MORROW

Scale: 1"=2000'
C.I.: 10'
Geologist: R.L. Asher
Date: January 1982


R 45 W
8.
LAMAR UTILITY CO 6"
21
22
23
26
27
28
34
35
EXCELSIOR ETAL
1-Duncan
5185
BROWN
2-22 Duncan
5180
Cum. 10777 BO 721 MMCF
D.R 0.0 BOPD 84 MCFD
Cum. Date 6-32 1st Prod. 3-75
I.P. 20 BOPD 1725 MCFD
Prod. Fm. MORROW
Perts. 4955-76
BROWN
1-21 Govt
5300
BROWN
1-22 Duncan
4950
BROWN
1-23 Spe...
Cum. 245 BO 32...
D.R 0.0 BOPD 5...
Cum. Date 6-32 1st Prod...
I.P. ... BOPD 62...
Prod. Fm. MORROW
Perts. 4558 - ...
BROWN
2-Bailey
4972
T. O & G
1 Hoffman - Fed.
4970
CLEARY
HONAKER-DAVIS
1-26 Hoffman
5850
Cum. 6178 BO 110 MMCF
D.R 1.1 BOPD 263 MCFD
Cum. Date 6-32 1st Prod. 3-75
I.P. ... BOPD 3020 MCFD
Prod. Fm. MORROW
Perts. 4412 - 22
4454-70
7671
Cum. 654 BO 385 MMCF
D.R 0.0 BOPD 56 MCFD
Cum. Date 6-32 1st Prod. 3-75
I.P. ... BOPD 694 MCFD
Prod. Fm. MORROW
Perts. 4856-62
BROWN 28
2-28 Duncan
5177
Cum. 820 BO 245 MMCF
D.R 1.0 BOPD 133 MCFD
Cum. Date 6-32 1st Prod. 2-77
I.P. ... BOPD 306 MCFD
Prod. Fm. MORROW
Perts. 4941 - 49
BROWN
1-29 Duncan
5165
BROWN
1-Bailey
5550
BROWN
1-Bailey "A"
4970
Cum. 110 BO 615 MMCF
D.R 0.0 BOPD 429 MCFD
Cum. Date 6-32 1st Prod. 6-78
I.P. ... BOPD 3210 MCFD
Prod. Fm. MORROW
Perts. 4873 - 84
MICH-WISC
1-26 Bailey
5334
DAVIS
1-28 Duncan
5310
Cum. 2817 BO 1074 MMCF
D.R 0.5 BOPD 415 MCFD
Cum. Date 6-32 1st Prod. 3-75
I.P. ... BOPD 1475 MCFD
Prod. Fm. MORROW
Perts. 4432 - 48
BROWN
1-33 Duncan
4969
BROWN
1-32 Duncan
5255
Cum. 395 BO 253 MMCF
D.R 0.0 BOPD 78 MCFD
Cum. Date 6-32 1st Prod. 3-75
I.P. ... BOPD 1034 MCFD
Prod. Fm. MORROW
Perts. 4895 - 4905
BROWN
1-33 Govt
5269
MICH-WISC
1-Jan Appling Etal
5219
Cum. 727 BO 856 MMCF
D.R 0.0 BOPD 289 MCFD
Cum. Date 6-32 1st Prod. 4-75
I.P. ... BOPD 61 MCFD
Prod. Fm. MORROW
Perts. 4864 - 80
MICH.-WISC
1-35 Bailey
5300
EXCELSIOR
1-Excelsior-Bailey "B"
5150
TXO
Duncan F-1
5400
ACKMAN
Bailey
5405
SKELLY
1-Bailey
5545
DAVIS
2 Bailey
5385

Type Log

Schlumberger — DUAL INDUCTION-LATEROLOG

COMPANY MICHIGAN WISCONSIN PIPE LINE COMPANY
WELL JON APPLING, ET AL. NO. 1
FIELD BARREL SPRINGS
COUNTY PROWERS STATE COLORADO
Location: C-NW-NE
Other Services: FDC-CNL-GR
Sec. 34 Twp. 25S Rge. 45W
Permanent Datum: G.L. Elev.: 4064
Log Measured From K.B. 10 Ft. Above Perm. Datum
Drilling Measured From K.B.
Elev.: K.B. 4074 D.F. - - G.L. 4064

COUNTY PROWERS FIELD or LOCATION BARREL SPRINGS WELL JON APPLING, ET AL NO. 1 COMPANY MICH. WISC. PIPE LINE CO.

Schlumberger — COMPENSATED NEUTRON-FORMATION DENSITY

(9)

COMPANY MICHIGAN WISCONSIN PIPE LINE COMPANY
WELL JON APPLING, ET AL NO. 1
FIELD BARREL SPRINGS
COUNTY PROWERS STATE COLORADO
Location: C-NW-NE
Other Services: DIL
Sec. 34 Twp. 25S Rge. 45W
Permanent Datum: G.L. Elev.: 4064
Log Measured From K.B. 10 Ft. Above Perm. Datum
Drilling Measured From K.B.
Elev.: K.B. 4074 D.F. - G.L. 4064

SPONTANEOUS-POTENTIAL (MILLIVOLTS) | DEPTHS | RESISTIVITY OHMS M²/M
DEEP INDUCTION LOG
MEDIUM INDUCTION LOG
LATEROLOG-8

CALIPER HOLE DIAM. IN INCHES | DEPTHS | DENSITY POROSITY INDEX % L.S. MATRIX

GAMMA RAY API UNITS

NEUTRON POROSITY INDEX % L.S. MATRIX

Morrow Top

Isopach Interval

Net Porosity

DST

IP 61 MCFD

DST 4864-90
GTS 375 MCFD
50' GCM; 4790' Gas; 50' GCM
FP 73-70 95-70 SI 1123-1117 HP 2333-2305

(10.)

A

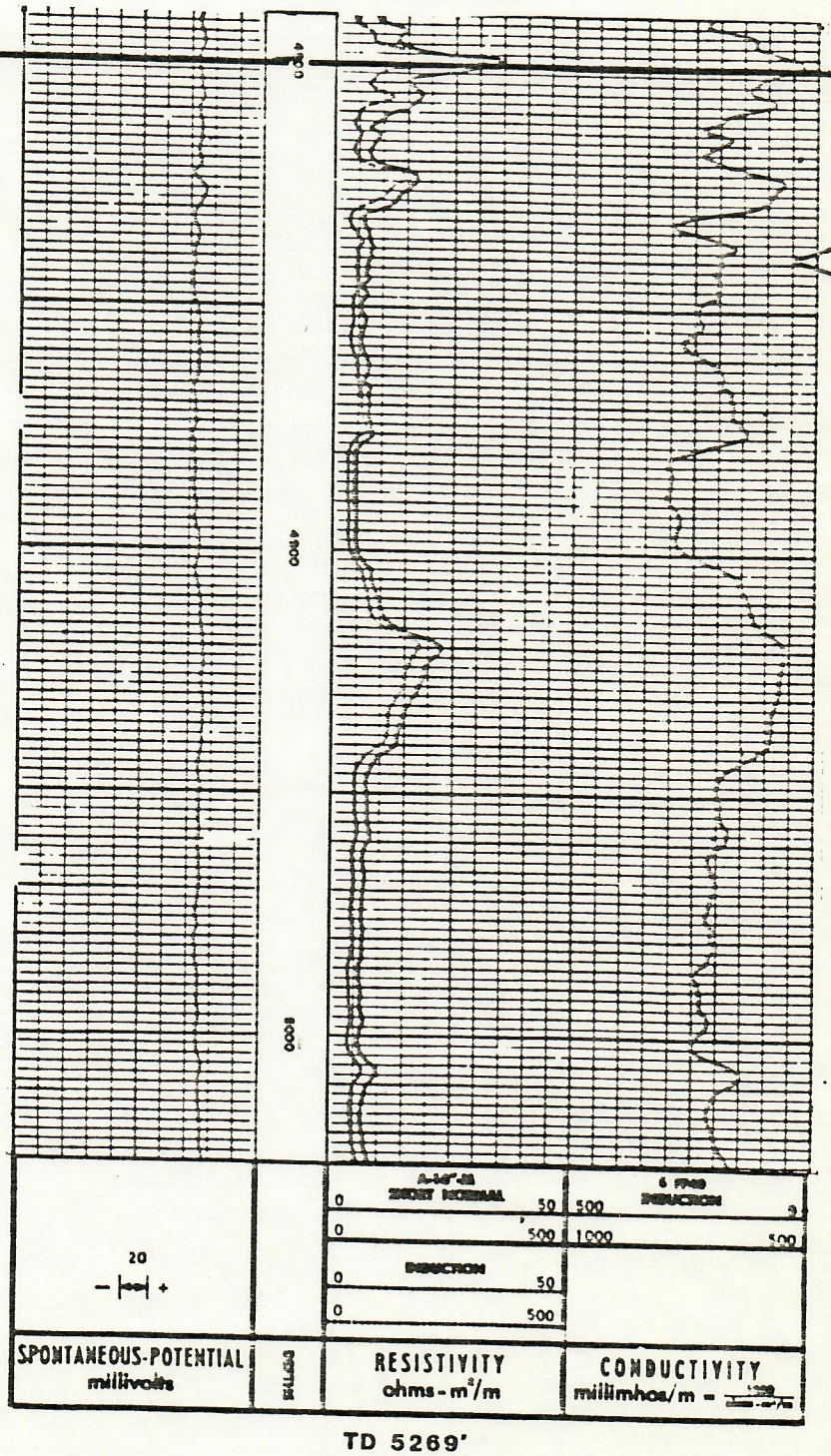
BROWN DRLG ET AL

#1 FEDERAL

KB 4004'

Ind. Elect. Log

Top Morrow



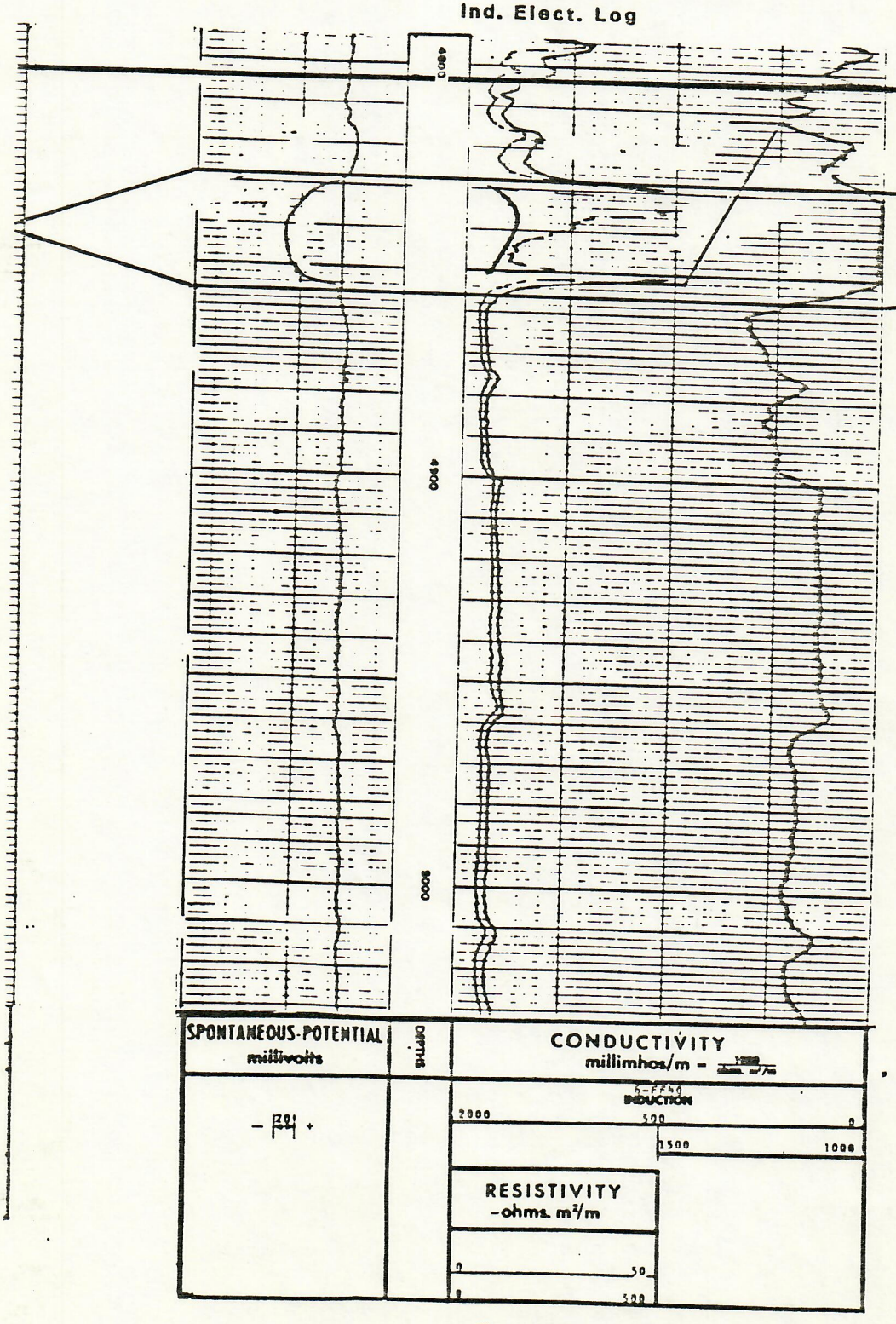
TD 5269'

DAVIS DRLG ET AL

#1 DUNCAN

KB 4026'

Ind. Elect. Log



TD 5306'

DST 4812-4852
GTS 5684 MCFD
Rec. 75' M
FP 915-977, SL 1135-1124, HP 2370-2307
IP 14750 MCFD, 4832'-4848'

(11.)

TXO PROD. CC

#1 BAILEY "I

PROPOSED LOCA

Upper Morrow

Gro

PTD 5300'

(13.)

DIRECTIONS TO WELL

TEXAS OIL & GAS CORPORATION
BAILEY "D" NO. 1
se nw nw sec. 34-T25s-T45w
Prowers Co., Colorado
4058' K. B.

At the intersection of highways 285 & 50, in the main business district of Lamar, Colorado, go East on hiway 50 11.4 miles to Carlton, Colorado. Turn South, on main gravel road 19. Go 18 miles. Road dead ends. Turn West on Rd. N. Go 1.1 miles to farm house. Continue West through a wire gate on a dirt two track road, 1.5 miles. Road turns North, go .9 mi., to dead end. Turn left, West, and go .3 mile. Go through a wiregate in a N-S fence, & follow two track road .2 mile to location. Location is in pastureland. Total Distance: 33.4 miles.

TEXAS OIL & GAS CORPORATION
BAILEY "D" NO. 1 WELL

WELL DATA

OPERATOR: Texas Oil & Gas Corporation

WELL NAME: Bailey "D" no. 1

LOCATION: se nw nw sec. 34-T25s-R45w

COUNTY: Prowers

STATE: Colorado

ELEVATION: 4048' B. L.; 4058' K. B.

DRILLERS: -

CONTRACTOR: J. W. Gibson Well Service Co., Inc. No. 93

TOOLPUSHER: Dale Carberry

DRAW WORKS: Franks 500, w/500 hp. v-12

DERRICK: Franks - 107' - Double

MOTORS: Detroit Diesel - 500hp - V-12

PUMPS: 1 - Gardner-Denver-14"X6" - w/Detroit - V -12
1 - National - C-150-14"X6' = 2 - 671 Detroit Diesel

MUD COMPANY: Service Mud Co., Lamar, Colorado

MUD TYPE: Jet - Chemical

MUD LOGGING: -

CASING: 8 5/8" set @ 380' K. B.

CEMENTERS: Halliburton

HOLE SIZE: 12¼" - surf. to 386'; 8 5/8" - 386' to 5240'.

SAMPLES: 3000' to 5240'

COMMENCED: 11:15 P.M., 11/30/82

DATE TOTAL DEPTH: 4:00 P.M., 12/11/82

STATUS: Prep. to run production csg.

TOTAL DEPTH: Drlrs - 5240'; Elog - 5235'.

TEXAS OIL & GAS CORPORATION
BAILEY "D" NO. 1

DAILY WELL CHRONOLOGY

DATE	DEPTH 7:00 A.M.	DAILY FOOTAGE	REMARKS
12/ 2/82	1010'	1010'	(Drlg.) SPUD: 12¼" surface hole@ 11:15 P.M., 11/30/82. Drilled to 386' by 9:45 A.M., 12/1/82. Circu. hole 30 minutes. Pull out of hole to run surf. csg. Ran 9 jts. - 8 5/8" csg. to 380'. Cmtd. with 300 sks. cmt. Good returns. Plug down: 1:15 P.M., 12/1/82. Wait on cement 11 hrs. Drld. cmt. plug. Drlg. 7 7/8" hole @ 11:45 P.M., 12/2/82. Drlg. @ 1010' @ 7 A.M.
12/ 3/82	2141'	1131'	(Drlg.) R.T. for new bit @ 3:30 P.M., 12/2/82. Back on bottom drlg. at 4:30 P.M.
12/ 4/82	2938'	797'	(Drlg.)
12/ 5/82	3375'	437'	(Work on mud pump) Lost circ. @ 3340' for 6¼ hrs.; Pulled 5 stands.
12/ 6/82	3797'	422'	(Drlg.)
12/ 7/82	4177'	380'	(Drlg.)
12/ 8/82	4497'	320'	(Drlg.)
12/ 9/82	4830'	333'	(Drlg.) R.T. for new bit at 4560' @ 11:30 A.M., 12/8/82. Resume drlg. @ 4:00 P.M., 12/8/82.
12/10/82	4930'	100'	(Circu. bottoms up after DST #1). Circu. spls. @ 8:30 A.M., 12/9/82 @ 4880'. Resumed drlg. 1:15 P.M., drld. to 4930'. Circu. spls. Start out of hole at 3:30 P.M. to pick up tst tool. Pick up tst tool & back on bottom, open tst. tool @ 8:45 P.M., 12/9/82. Pull off bottom @ 1:30 A.M., 12/10/82. Out of hole, lay down tst. tool, & back c bottom at 4:15 A.M., 12/10/82. Circu. 1 hr.
12/11/82	5240'	310'	(Circu. for elogs.) Circu. bottoms up. Resume drlg. @ 7:15 A.M., 12/10/82. T.D. - 5240' @ 4:00 A.M., 12/11/82. Lost circu. Pull 5 stds. Regained circu. Back on bot. circu. at 6:00 A.M., 12/11/82.
12/12/82	5240'	0'	(Prep. to run csg.) Circu. 1½ hrs., made 6 std. short trip. Circu. 2 hr Conditioning hole for elogs. Out of hole to run elogs @ 1:45 P.M., 12/11/82. Finish 6:30 P.M. Finish sending telecopies: 10:30 P.M., 12/11/82.

TEXAS OIL & GAS CORPORATION
BAILEY "D" NO. 1 WELL

BIT RECORD

Well: Texas Oil & Gas Bailey D-1 State: Prowers Co., Colo.

Bit No.	Size	Make	Type	Jets	Depth Cut	Footage	Hours
1	12¼	HTC	J-1	14-14-14	380'	380'	10¼
2	7 7/8	Reed	Y-11	14-14-15	1403	1023	24
3	"	Smith	F-2	14-14-15	4560	3157	116¼
4	"	Smith	F-3	15-15-15	5240	680	36 3/4

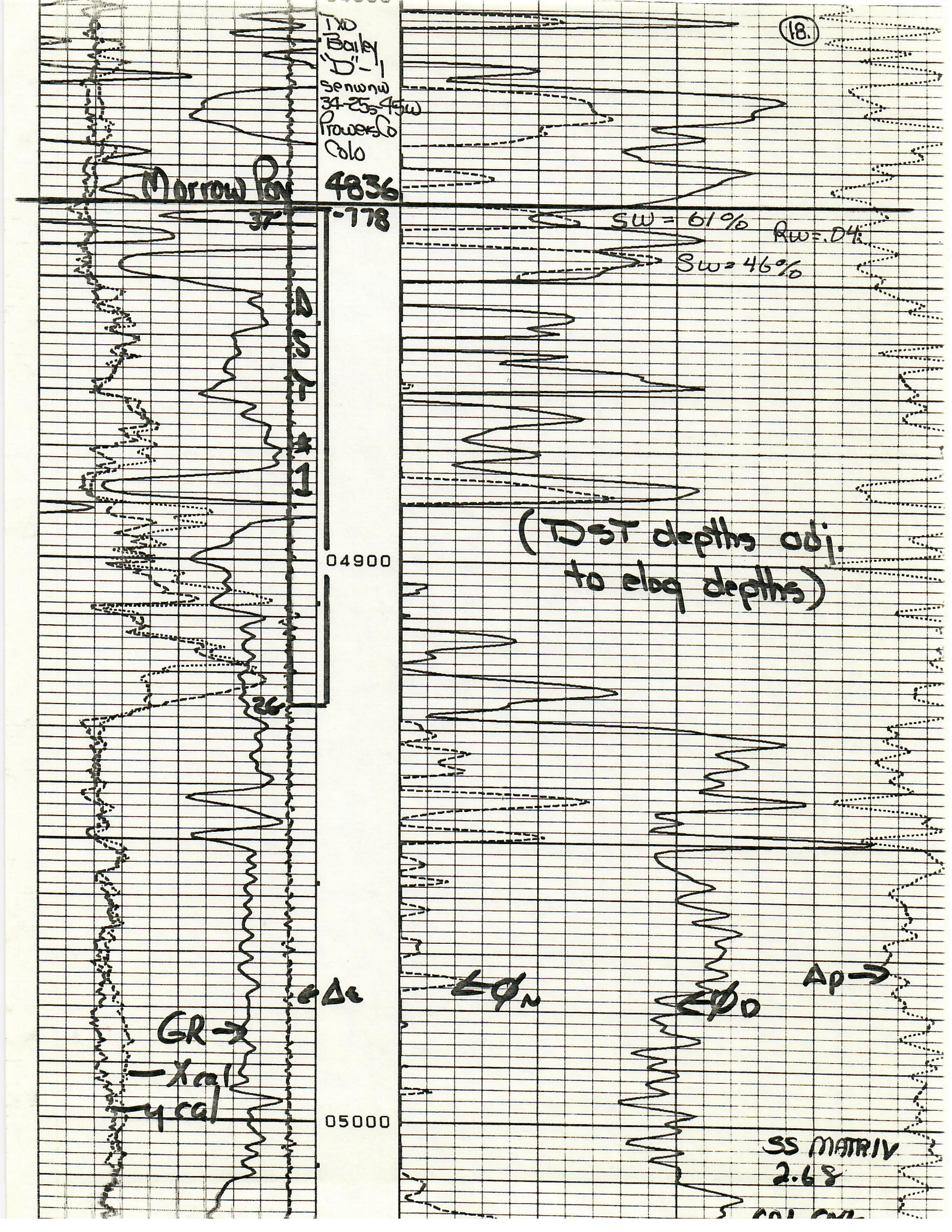
DEVIATION SURVEY

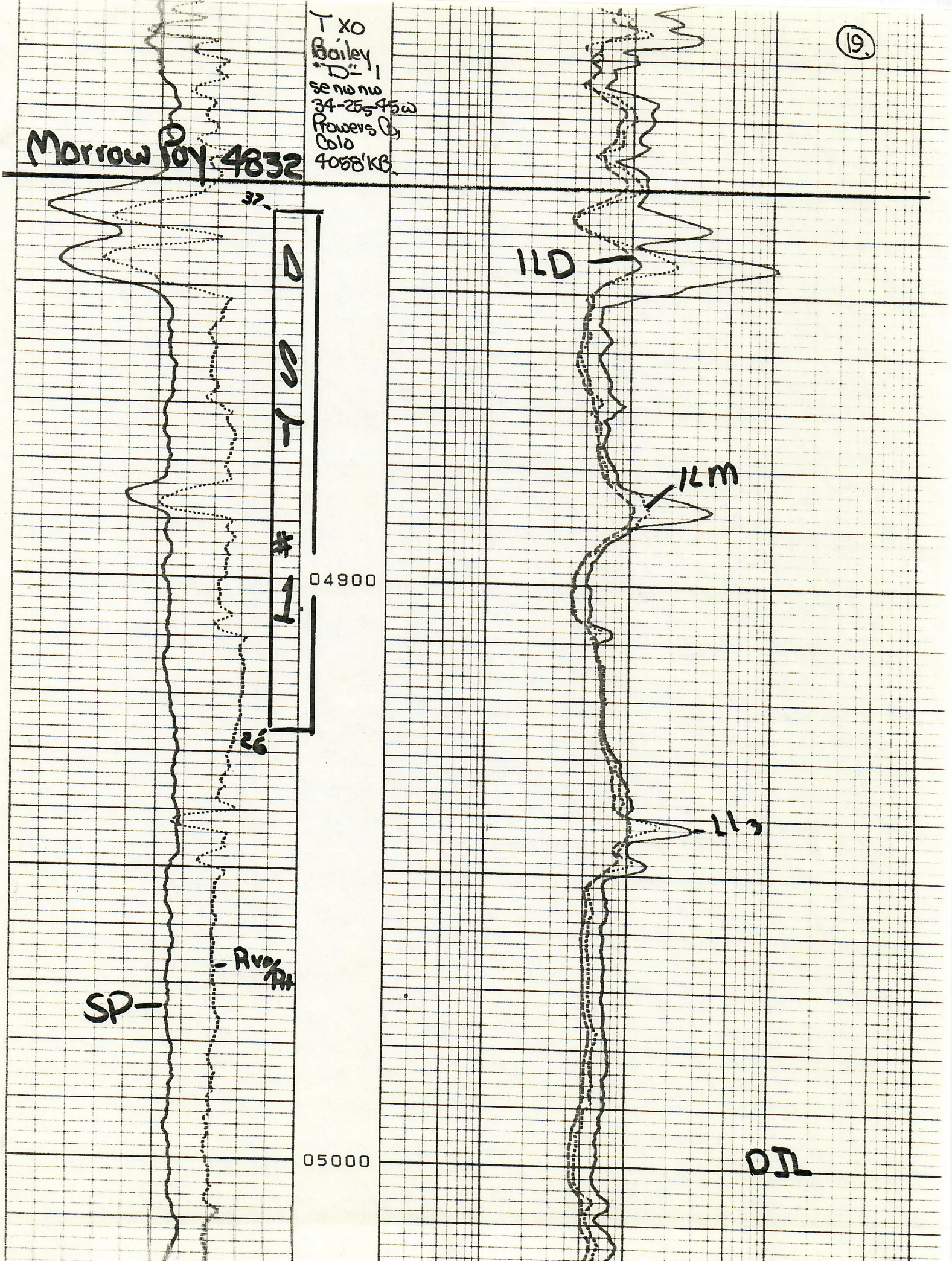
DEPTH	DEVIATION	KIND
380'	½°	Eastman
1463'	1°	"
4560'	1½°	"
4930'	1½°	"
5240'	1½°	"

COMPARATIVE FORMATION TOPS

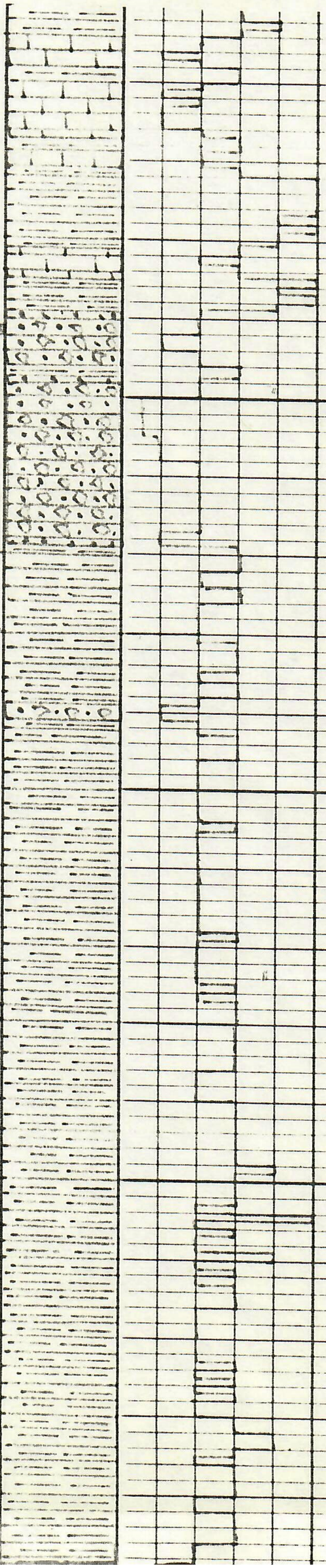
TEXAS OIL & GAS CORPORATION
BAILEY "D" NO. 1
se nw nw sec. 34-T25s-R45w
Prowers Co., Colorado
4058' K. B.

	MICH-WIS APPLING NO. 1 nw ne sec. 34 25s-45w 4074' K. B.		TEXAS OIL & GAS CORPORATION BAILEY "D" NO. 1 WELL se nw nw sec. 34-T25s-R45w Prowers Co., Colorado 4058' K. B.					
	ELOG		PROGNOSIS		SAMPLE		ELOG	
FORMATION	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM
Stone Corral	1800	+2274	-	-	-	-	1764	+2294
B/Stn. Corral	1822	+2252	1834	+2224	?1832	+2226	1786	+2272
Topeka	3112	+ 962	3216	+ 842	3188	+ 870	3078	+ 980
Topeka "C"	3278	+ 796	-	-	3336	+ 722	3246	+ 812
L-KC	3653	+ 421	3786	+ 272	3710	+ 347	3620	+ 438
Marmaton	4146	- 72	4151	- 93	4205	- 147	4104	- 46
Cherokee	4316	- 242	4300	- 242	4367	- 309	4292	- 234
Atoka	4528	- 454	4561	- 503	4579+	-	4506	- 448
Morrow	4832	- 758	4870	- 812	4839	- 781	4802	- 744
Pay Sd.	4870	- 796	4894	- 836	4839	- 781	4836	- 778
M-2	-	-	-	-	-	-	4884	- 826
L. Morrow	5120	-1046	5146	-1088	5090	-1032	5094	-1036
Miss.	-	-	5220	-1162	5183	-1125	5176	-1118
T.D.	-	-	5270	-1212	5240	-1182	5235	-1177


(18.)
IXO
Bailey
"D"-1
Senwnw
34-25s-45w
Prowers Co
Colo
Morrow Pay
4836
37
-778
SW = 61%
Rw = .04
SW = 46%
DST #1
(DST depths adj.
to elog depths)
04900
26
GR →
x cal
y cal
05000
SS MATRIX
2.68


TXO
Bailey
"D" 1
se nw nw
34-25s-45w
Prowers Co, Colo
4058' KB
Morrow Pay 4832
37
DST #1
26
ILD
ILM
LL3
04900
05000
SP
Rxo/Rt
OIL

Txo
Bailey "D"-1



Morrow
DST #1- 4841'-4930'
50-60-60-150
IF: immed. v/wk. blow of air, grad. inc. to 3" in 30 mins. ; N.G.T.S.
FF: immed. good blow of air (6"), Gradual inc. to 806 in 60 mins N.G.T.S.
O.S.-3:25AM, 12/1/82
REC: 540' G.C.D.P.
27' G.C.D.M.
SPLR: 0# [illegible] 2200 cc mud, N.S.
4900
H.P.-[illegible]
IF-106 - 68 Plugging
FF-106-119
ISI-528
FSI-632
BHT-123°F
O.S.-[illegible], 12/9/82

DST #1

Ss - wh, pale blue, color[illegible] f.g., consol. to lse. qtz. subr, transl/ transp, Good lt. yel mineral fluor, no cut

Sh - dk. gy, blk. Trcs lt. gy, bento, flky to plty, carbona, micro-micaceous

Sh - gy to dk. gy, blk lt. gy, plty & splinter dull micro-micac.

Sh - dk. gy, blk, plty, splintery, crinkly [illegible] micro-mica., sparsely pyritic.
Tr - Floating qtz. grns. crse, subr, transp,

Sh - m to dk. gy, dk. gy grn, lt. gy, plty splintery & crinkly micro-micac. sparsely pyritic Tr-[illegible] pyrite

5000

TEXAS OIL & GAS CORP.
DST REPORT FORM

Lease & Well # Bailey "D" no. 1 Date: 12/9/82

DST # 1, 4841 ' - 4930 ', (Morrow Fm)

3/4 "B & ¼ " TC. 0 ' WC.
Tool open: 9:00 P.M.

IFP, TO w/ weak blow of air, gradual increase to 3" in 30 mins.

FFP, TO w/ good blow of air (9"), open 2" line, blowed down in 1". Close 2" line. Start bubbling in 6 mins., inc. to good blow of air. BOB at end of 60 mins.

REC : 540' GIDP; 23' GCDM

Top Rw = _____ @ _____°F, Cl _____ppm. Middle Rw = _____ @ _____°F, Cl _____ppm. Btm Rw = _____ @ _____°F, Cl _____ppm. Mud Rw = _____ @ _____°F, Cl _____ppm.

IHHP 2459 #, 30 "IFP 106 - Perfs. plugging # , 60 "ISIP 528 #, 60 "FFP 106 - 119 # , 120 "FSIP 632 # , FHHP 2433 #, BHT 123 °F.

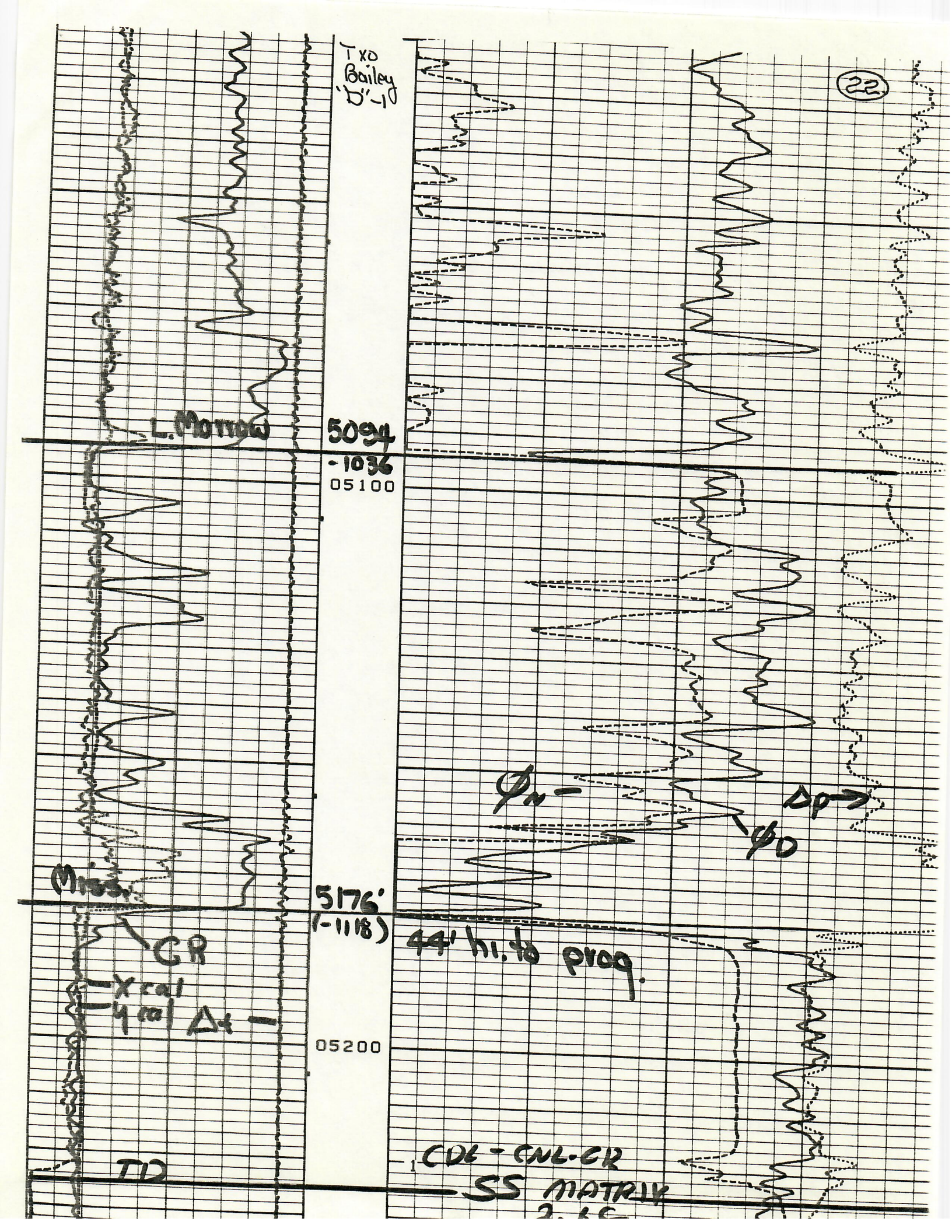
BHSC @ 0 #, 2200 cc mud. N.S.

_____. Rw = _____ @ _____°F, Cl _____ppm.

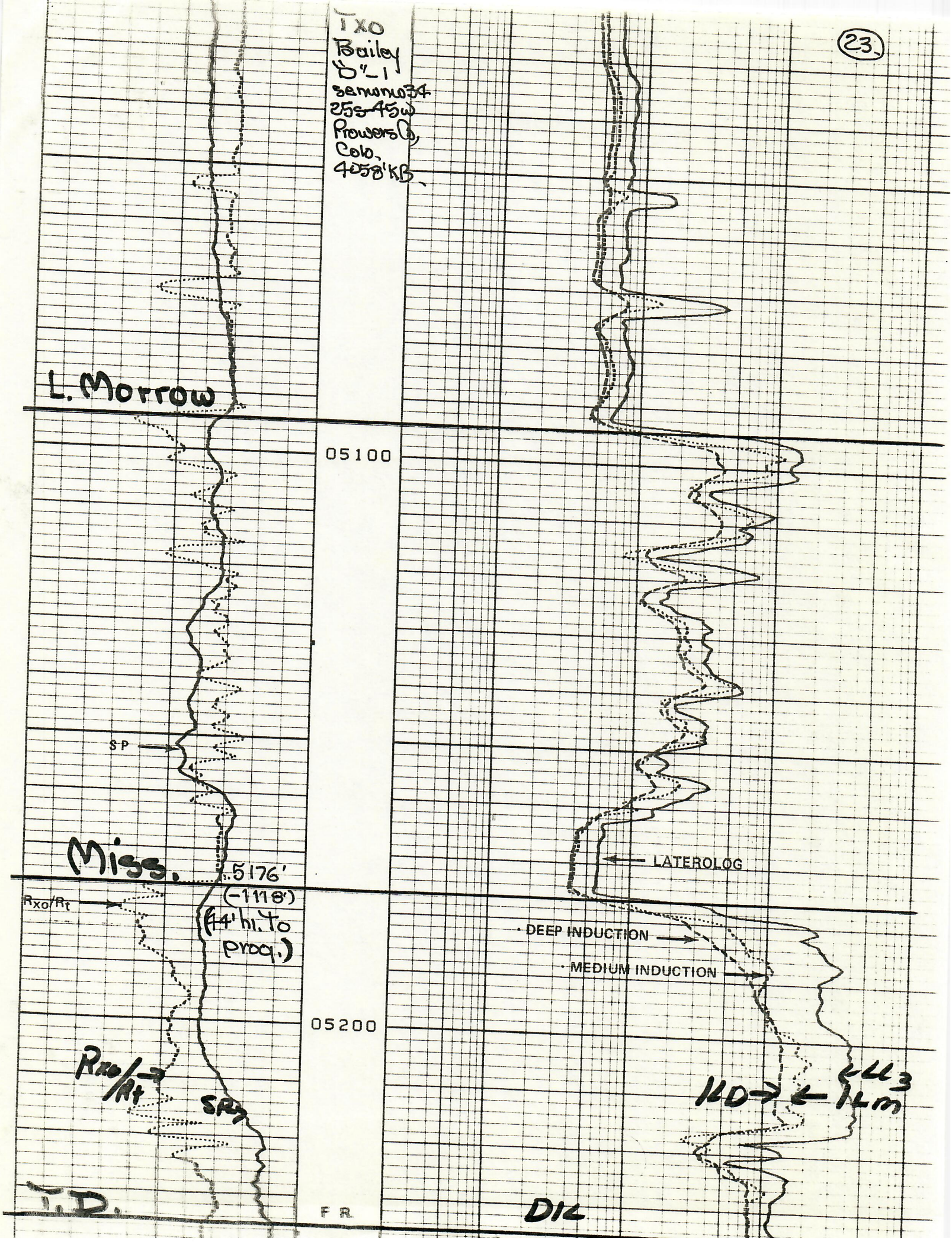
SIP Build-up indicates: (Normal) (Damaged) (Tight) (Depletion) (Other)

Testing Company: Halliburton Tester: Gary Moore

Test was mechanically: (Successful) (Unsuccessful)


TXO
Bailey
"D"-1
22
L. Morrow
5094
-1036
05100
Miss.
5176'
(-1118)
CR
Xcal
Acal
Δt
44' hi. to prog.
05200
TD
CDL-CNL-CR
SS MATRIX
ϕ_N
ϕ_D
Δρ

TXO
Bailey
"D"-1
sec. 10-34
25s-45w
Prowers Co,
Colo.
4058' KB



Exxo
Bailey "D" - 1

L. Morrow

5100

Lmy. Ss.

N.S.

Miss

5200

BRIEF SAMPLE DESCRIPTION

TEXAS OIL & GAS CORPORATION
BAILEY "D" NO. 1 WELL
se nw nw sec. 34-T25s-R45W
Prowers Co., Colorado
4058' K. B.

DRILLED TO 3000' by 9:00 A.M., 12/4/82. Samples lagged by wellsite geologist.

2980-3120: Sh-100%- brick red, Traces pale grn, med. hd., flky, slty, dull, in pt. sdy, micro-micaceous,
Tr-wh, amorphous & spicular gypsum
Tr-grn, vfg, shly. ss.
Tr-wh, crypto-X-ln, smooth, dnse ls. - w/li. yel. min. fluor.

3120-3140: Sh-80%- desc. abv.
Ss-20%- wh. tan, vfg, prly. cmtd, suba, transparent, no vis. ϕ; N.S.

3140-3160: Sh-100%- desc. abv.
Trcs-wh, translucent platy gypsum.

3160-3190: Sh-80%- desc. abv.
Ss-20%- wh, li. tan, vf/fg, friable, calc, subangular, transp., no vis. ϕ; N.S.

3190-3240: Sh-80%- desc. abv.
Ls-20%- li. tan, wh, crypto-X-ln, med. hd, flky, tite, no vis. ϕ; N.S.

3240-3280: Sh-70%- desc. abv.
Ls-30%- desc. abv. N.S., dull li. yel. min. fluor.

3280-3290: Sh-50%- desc. abv.
Ls-50%- li. tan, crypto-X-ln, flky, med. hd, flky, clean, no vis. ϕ, N.S.

3290-3300: Sh-90%- dull rusty red, dk. brn, flky, slty, micro-micaceous, 10% li. to dk. gry, & pale grn.
Ls-10%- desc. abv. N.S.

3300-3320: Ls-80%- tan, white, crypto-X-ln, in pt. gry-tan, flky, fossiliferous,
Tr-oolicasts, clean, no vis. ϕ, N.S. Pale li. yel. min. fluor.
Sh-20%- desc. abv.

3320-3340: Sh-80%- desc. abv.
Ls-20%- desc. abv. N.S.
Tr-wh, colorless, subr., crse.qtz. grns.

3340-3350: Sh-60%- desc. abv.
Ss-40%- wh, colorless, fine to crse. lse. qtz. grns, subr., Trcs orange stnd, transparent, probably good inter-granular porosity. N.S.

NOTE: LOST CIRC. @ 3340'. Regained circu. & resumed drlg. in 6 hrs. & 20 mins.

3350-3370: Sh-70%- desc. abv.
Ls-30%- desc. abv. N.S.
Tr-f/crse. sandstone, & lse qtz. grns.

3370-3390: Ls-70%- wh, tan, li. gry, crypto-X-ln to chalky, sft to hd., flky, fossiliferous, no vis. ϕ; N.S.
Sh-30%- desc. abv.
Tr-wh, colorless lse. qtz. grns.

3390-3400: Ls-60%- li. gray, tan, wh, clastic, shly, flky, hd, no vis. ϕ; N.S.
Sh-40%- desc. abv.

3400-3460: Ls-90%- li. gry, gry-wh, crypto-X-ln, sucrosic to smooth, dull, shly, clastic,
Trcs w/embdd qtz, quartzic, no vis. ϕ; N.S.
Sh-10%- desc. abv.

3460-3480: Sh-80%- brick red, med. to dk. gry, slty, flky, gyppy,
Ls-20%- desc. abv., N.S.

3480-3490: Ls-70%- li. gry, gry-wh, tan, crypto-X-ln, hd, flky & blky, clastic, shly, sdy, no vis. ϕ; N.S.
Sh-30%- desc. abv.

3490-3510: Sh-60%- desc. abv.
Ls-40%- desc. abv. N.S.

3510-3540: Ls-90%- li. gry to gry-wh, crypto-X-ln, flky, fossiliferous, rough, no vis. ϕ; N.S.
Sh-10%- desc. abv.

3540-3560: Ls-60%- desc. abv. N.S.
Sh-40%- desc. abv.

3560-3580: Sh-80%- desc. abv.
Ls-20%- desc. abv. N.S.

3580-3630: Sh-60%- desc. abv.
Ls-40%- tan, crypto-X-ln, smooth, dull, flky, Trcs. fossiliferous, no vis. ϕ; N.S.

3630-3640: Ls-70%- li. tan, wh, tan, crypto-X-ln, flky, smooth to sucrosic surface texture, med. hd, traces shaly, no vis ϕ, N.S.
Sh-30%- rusty red, brn, minor forest grn & gry, flky, slty, calc.

3640-3660: Sh-70%- desc. abv.
Ls-30%- desc. abv. N.S.

3660-3680: Sh-90%- chocolate brn, dull rusty red, flky, blky, slty, micaceous,
Traces grn & gry sh.
Ls-10%- desc. abv. N.S.

3680-3780: Sh-100%- desc. abv.
Tr-tan, wh, dnse ls, N.S., pyritic,
Tr-li. gry, vf/fg, tite, shly. ss. N.S.

3780-3840: Sh-70%- dull rusty red, chocolate brn, med. to dk. gry, slty, flky, micro-micaceous,
Ls-30%- tan, gry-tan, li. gry, crypto-X-ln, flky, hd, shly, sdy, no vis. ϕ; N.S.
Trace- wh, fg, suba, friable ss. N.S.

3840-3880: Sh-100%- desc. abv.

3880-3900: Sh-90%- desc. abv.
Ls-10%- tan, gryish-tan, crypto-X-ln, flky & blky, clean, Trcs w/spotted gry, no vis. ϕ; N.S.

3900-3920: Sh-60%- desc. abv.
Sltst-40%- med. gry, crse, hd, blky, calc.
Tr.-wh, tan, gry, mottled, dnse ls., N.S.

3920-3930: Sh-60%- dull brick red, gry, hrd, flky, slty,
Ls-40%- li. gry, mottled gry & tan, crypto-X-ln, to chky, shly, no vis. ϕ; N.S.

3930-3980: Ls-60%- desc. abv., N.S. Trcs pseudo-oolicastic.
Sh-40%- desc. abv.

3980-4000: Ls-70%- cream, mottled with gry sh. spots & stks, crypto-X-ln, med. sft, flky, dull, shly, no vis. ϕ; N.S.
Sh-30%- choc. brn, rusty red, gry, flky & blky, slty, micro-micaceous, anhydritic.

4000-4020: Ls-80%- tan, gry-tan, cream, li. gry, crypto-X-ln, flky, clean, no vis. ϕ; N.S.
Sh-20%- desc. abv.

4020-4060: Sh-80%- desc. abv.
Ls-20%- desc. abv. N.S.

4060-4070: Ls-60%- desc. abv. N.S.
Sh-40%- desc. abv.

4070-4130: Sh-90%- desc. abv.
Ls-10%- desc. abv. N.S.

4130-4140: Ls-80%- tan-gry to li. gry, wh, crypto-X-ln, flky, clean, no vis. ϕ; N.S.
Sh-20%- dull rusty red, choc. brown, gry, slty & sdy, micaceous, blky.

4140-4150: Sh-90%- dull rusty red to dk. choc. brn, med. to dk. gry, slty, micro-micaceous, dull, flky & platy,
Ls-10%- tan, wh, crypto-X-ln, flky, hd, clean, no vis. ϕ; N.S.

4150-4180: Sh-60%- desc. abv.
Ls-40%- desc. abv. N.S.

4180-4210: Sh-70%- desc. abv.
Ls-30%- desc. abv. N.S.

4210-4240: Sh-90%- desc. abv.
Ls-10%- desc. abv., N.S.

4240-4260: Sh-70%- dull, rusty red to dk. choc. brn, dk. gry, slty, dull, micro-micaceous, calc.
Ls-30%- tan, wh, crypto-X-ln, smooth, trcs w/fractures filled with red shale, no vis. ϕ; N.S.

4260-4300: Ls-80%- med. gry, brnish-gry, crypto-X-ln, sucrosic texture, Trces fossiliferous
Trace w/embedded crinoid stem, no vis ϕ; N.S.
Sh-20%- dk. choc. brn, li. to dk. gry, blky, slty, micro-micaceous,

4300-4310: Sh-70%- desc. abv.
Ls-30%- desc. abv. N.S.

4310-4320: Ls-80%- li. gry, tan, brn, gryish-wh, crypto-X-ln, med. hd., flky, shly,
Sh-20%- li. to dk. gry, dull rusty red, slty, micaceous, carbonaceous,

4320-4330: Sh-70%- dk. rusty, red, li. to dk. gry, slty, carbonaceous, micaceous.
Ls-30%- desc. abv. N.S.

4330-4360: Sh-80%- desc. abv.
Ls-20%- desc. abv. N.S.

4360-4420: Ls-70%- tan, gry-tan, li. gry, crypto-X-ln, flky & plty, smooth, clean, no vis. ϕ; N.S.
Sh-30%- desc. abv.

4420-4460: Ls-60%- desc. abv. N.S.
Sh-40%- desc. abv.

4460-4470: Ls-60%- tan, gryish-tan, li. gry, crypto-X-ln to chky, flky & blky, smooth, med. hd, clean, no vis ϕ; N.S.
Sh-40%- li. to dk. gry, dull rusty red, blk, dk. choc. brn, slty, blky, micaceous.

4470-4490: Sh-70%- desc. abv.
Ls-30%- desc. abv. N.S.

4490-4500: Ls-80%- Desc. abv. N.S.
Sh-20%- Desc. abv.

4500-4520: Sh-70%- Desc. abv.
Ls-30%- desc. abv. N.S.

4520-4540: Sh-70%- dull rusty red, choc. brn, li. to dk. gry, flky, & blky, slty, micaceous
Ls-30%- tan, gry-tan, li. gry, crypto-X-ln, med. hd, smooth, no vis. ϕ; N.S.

4540-4560: Sh-80%- desc. abv.
Ls-20%- desc. abv. N.S.

4560-4600: Sh-70%- dk. gry, blk, flky & blky, micro-micaceous,
Ls-30%- li. to med. gry, gry-tan, crypto-X-ln, flky, shly, no vis ϕ; N.S.

4600-4620: Sh-70%- med. to dk. gry, flky, dull, micro-micaceous,
Ls-30%- tan, li. gry, crypto-X-ln, flky, smooth, shly, no vis. ϕ; N.S.

4620-4640: Sh-60%- desc. abv.
Ls-40%- desc. abv. N.S.

4640-4660: Sh-90%- desc. abv.
Ls-10%- desc. abv. N.S.

4660-4670: Ls-60%- gryish-tan to li. gry, crypto-X-ln, sucrosic, shly, med. hd, otherwise nondescript, no vis. ϕ; N.S.
Sh-40%- med. to dk. gry, blk, minor li. gry, flky, micro-micaceous, dull, carbonaceous

4670-4680: Sh-80%- desc. abv.
Ls-20%- desc. abv. N.S.

4680-4700: Sh-60%- desc. abv.
Ls-40%- desc. abv. N.S.

4740-4750: Ls-70%- gry, dk. gry, tan, crypto-X-ln, sucrosic, med. hd, flky, dnse, shly, no vis. ϕ; N.S.
Sh-30%- dk. gry, blk, carbonaceous, flky, dull, micaceous.

4750-4770: Sh-70%- desc. abv.
Ls-30%- desc. abv. N.S.

4770-4800: Ls-60%- desc. abv. N.S.
Sh-40%- Desc. abv.

4800-4840: Sh-80%- desc. abv.
Ls-20%- desc. abv. N.S.

NOTE: DRILLING BREAKS: 4842-44 - from 2 to 1 minute/ft; 4850-58'- from 2 to ½ minute per ft; 4867-69', from 2 to 1 minute per foot. Circ. @ 4880', 8:26 A.M., 12/9/82.

4840-4850: Sandstone-60%- wh, pale blue, colorless, fine to coarse, consolidated to lse. qtz grns., subrounded, translucent to transparent, probable good porosity, consolidated frags, with good li. yel. fluor., no cut.
Sh-40%- desc. abv., w/traces pyrite.

4850-4870: Ss-80%- wh, colorless, fine to crse, friable to lse, qtz. grns, subrounded, translucent, probable good intergranular porosity. Good li. yel. fluor., w/no cut.
Sh-20%- desc. abv.

4870-4880: (60 min. circu. sple.)
Sh-100%- dk. gry, blk, trcs li. gry bentonite, flky to plty, carbonaceous, micro-micaceous.

RESUMED DRILLING.

4880-4890: Sh-80%- med to dk. gry, blk, plty & splintery, micro-micaceous, dull, pyritic.
Ss-20%- wh, f/mg, well cmt'd, translucent to transparent, sub-angular, no vis. ϕ; N.S.

NOTE: Circu. spls. @ 4930', @ 1:14 P.M., 12/9/82.

4890-4900: Sh-100%- med. to dk. gry, blk, li. gry, plty & splintery, dull, micro-micaceous.
Tr-Ss-wh, f/mg, friable, suba, N.S.

4900-4920: (30 min. circu. sple.)
Sh-100%- desc. abv.
Tr-wh, ss - N.S.

4920-4930: (60 min. circu. sple.)
Sh-100%- dk. gry, blk, plty, splintery & crinkly fragments, dull, micro-micaceous, sparsely pyritic,
Tr-floating qtz. grns, subrounded, crse, transparent.

NOTE: Ran DST #1 - 4841' - 4930'.

4930-5050: Shale-100%- med. to dk. gry, dk. gryish-grn, li. gry, plty, splintery & crinkly frags., micro-micaceous, sparsely pyritic, traces lse pyrite frags,
Tr-wh, f/mg, Tr. crse, subr.,translucent ss - N.S.
Tr-li. gry, tan, crypto-X-ln, med. hd. ls.

5050-5070: Sh-90%- desc. abv.
Ls-10%- gryish-tan to li. brn, crypto-X-ln, mottled tan & li. brn, shly, no vis. ϕ; N.S.

5070-5080: Sh-70%- desc. abv.
Ls-30%- desc. abv. N.S.

5080-5090: Sh-100%- desc. abv.
Tr-tan, crypto-X-ln, shly ls. - N.S.
Tr-li. gry, fg, hd, tite ss - N.S.

5090-5240: Limy Ss-80%- wh, cream, tan, fine to crse. grnd, friable to lse. qtz. grns, translucent, subrounded, Traces pyritic, glauconitic, no vis. ϕ; N.S.
Sh-20%- med. to dk. gry, blk, plty & splintery, micro-micaceous, pyritic,

5140-5160: Limy Ss-80%-wh, colorless, fine to crse. grnd, predominately lse. qtz. grns, subrounded to subangular, glauconitic, limy cmtg. material, translucent to transparent, no vis. ϕ; N.S.
Sh-20%- desc. abv.

5160-5180: Sh-80%- desc. abv.
Limy ss-10%- desc. abv. N.S.
Ls-10%- tan, crypto-X-ln, flky, med. hd. to chky, clean, no vis. ϕ; N.S.

5180-5220: Ls-60%- tan, gry-tan to li. gry, sdy, crypto-X-ln, sucrosic, in pt. mottled gry & tan, flky & blky, dull, no vis. ϕ; N.S.
Sh-40%- desc. abv.

NOTE: T.D. - 5240', 4 A.M., 12/11/82. Lost circulation. Pulled 5 stds., regained circulation, & resume circu. in 2½ hours.

5220-5240: No sple. recovery. Lost circulation.

DRILLING TIME

TEXAS OIL & GAS CORPORATION
BAILEY "D" NO. 1 WELL
se nw nw sec. 34-T25s-R45w
Prowers Co., Colorado
4058' K. B.

DRILLED TO 3000' by 9:00 A.M., 12/4/82.

3000-3010:	3,2,2,2,2,2,2,2,3,2,
20:	2,2,2,2,2,2,1,2,2,2,
30:	3,2,2,2,2,1,1,1,1,1,
40:	1,1,1,1,1,2,1,3,1,2,
50:	2,2,2,2,2,2,2,2,2,1,
60:	2,2,2,2,2,2,2,1,2,1,
70:	2,2,3,2,2,2,2,2,2,2,
80:	2,2,3,2,2,2,2,2,2,2,
90:	2,2,2,3,2,2,3,2,2,3,
3090-3100:	2,2,2,2,2,2,1,2,2,2,
3100-3110:	1,1,2,2,2,2,2,2,2,2,
20:	2,2,2,2,1,2,3,2,2,2,
30:	2,2,1,1,1,1,1,½,½,½,
40:	½,½,½,2,½,½,2,2,1,1,
50:	2,2,2,2,2,3,3,2,2,2,
60:	3,3,2,1,2,1,1,1,1,2,
70:	2,2,2,2,1,2,1,1,1,2,
80:	2,2,2,3,2,2,1,2,2,2,
90:	2,2,2,2,2,3,3,2,1,1,
3190-3200:	1,1,½,1,1½,3,3,3,2,2,
3200-3210:	2,2,3,2,2,3,3,2,2,3,
20:	3,3,3,3,3,2,2,3,3,3,
30:	3,4,3,2,2,2,3,2,3,2,
40:	2,3,2,2,3,2,2,2,2,2,
50:	3,3,3,2,2,2,1,2,1,2,
60:	2,2,1,2,1,3,2,2,2,2,
70:	2,1,2,2,2,2,2,2,2,3,
80:	2,2,2,3,2,2,2,2,2,2,
90:	2,2,3,2,2,3,1,2,1,2,
3290-3300:	1,1½,1½,1½,2,2,2,3,2,2,

3300-3310:	2,2,2,2,2,2,2,2,1,2,	
20:	3,2,3,3,2,2,2,2,3,2,	
30:	2,1,2,1,2,3,2,2,1,2,	
40:	3,2,3,2,2,2,1,1,1,1,	- Lost Circu. - 3340', 10:50 P.M., 12/4/82.
50:	1,1,1,2,3,2,2,2,2,2,	- Regain Circu., resume drlg. 5:10 A.M., 12/5/82
60:	1,2,1½,1½,2,2,2,3,3,3,	
70:	2,3,3,1,2,3,1,3,2,2,	
80:	3,1,1,1,1,1,1,2,2,1,	
90:	2,1,1,2,2,2,2,3,2,2,	
3390-3400:	3,3,3,3,3,2,3,3,3,2,	
3400-3410:	3,3,3,3,2,2,3,3,3,3,	
20:	2,3,3,2,3,2,3,2,3,2,	
30:	3,2,3,2,2,3,3,2,4,3,	
40:	2,1,2,2,2,2,2,3,3,2,	
50:	4,4,3,2,3,3,3,3,3,2,	
60:	3,3,3,3,3,3,3,3,4,4,3,	
70:	4,3,2,2,3,3,3,3,4,3,	
80:	3,3,4,3,4,3,3,2,3,3,	
90:	2,2,3,3,2,3,3,3,3,3,	
3490-3500:	3,3,3,3,4,4,4,4,4,4,	
3500-3510:	3,4,3,4,3,3,3,2,3,4,	
20:	3,4,4,3,3,3,4,3,4,3,	
30:	3,2,2,3,4,2,2,3,3,4,	
40:	3,3,3,2,2,2,1,2,2,4,	
50:	3,5,3,2,3,2,2,4,3,3,	
60:	3,3,3,4,2,4,4,4,3,3,	
70:	5,3,4,4,3,3,2,4,5,3,	
80:	4,3,4,3,4,4,3,4,3,3,	
90:	3,3,3,2,3,3,3,3,3,3,	
3590-3600:	2,3,3,2,3,4,3,4,3,3,	
3600-3610:	4,3,4,3,3,3,3,3,3,3,	
20:	2,3,3,4,4,4,4,3,3,3,	
30:	3,3,4,4,4,4,4,3,3,3,	
40:	3,3,3,3,3,4,3,3,3,3,	
50:	3,3,3,3,4,4,3,3,3,3,	
60:	3,3,3,3,3,4,3,3,3,3,	
70:	3,4,3,3,3,3,4,2,3,2,	
80:	3,3,3,3,3,3,4,4,3,3,	
90:	1,1,3,3,4,3,3,4,3,3,	
3690-3700:	3,3,3,2,4,3,4,4,3,3,	

3700-3710: 3,4,3,3,3,4,3,4,3,2,
20: 4,3,3,4,3,3,4,3,3,4,
30: 3,2,3,4,3,2,3,3,3,3,
40: 3,3,3,3,3,3,3,3,2,3,
50: 3,3,4,3,2,4,3,3,4,2,
60: 2,2,2,3,4,3,3,4,3,3,
70: 3,3,3,4,3,3,4,3,3,4,
80: 3,3,3,2,3,4,4,3,3,3,
90: 3,3,3,3,3,2,3,3,1,2,
3790-3800: 1,3,3,3,2,4,3,3,3,3,

3800-3810: 3,3,3,3,3,3,3,3,3,4,
20: 3,3,3,3,4,3,3,3,4,4,
30: 3,4,4,4,4,4,4,3,3,3,
40: 4,4,4,3,4,3,4,4,3,4,
50: 4,4,4,3,4,4,4,4,4,3,
60: 3,2,3,4,3,3,3,3,2,4,
70: 3,3,5,3,4,3,4,3,3,4,
80: 3,3,2,3,4,4,4,4,5,3,
90: 3,3,4,3,3,4,4,4,4,3,
3890-3900: 3,4,4,4,4,4,4,4,4,4,

3900-3910: 5,5,5,4,4,4,4,4,5,5,
20: 6,5,5,4,4,4,4,3,3,4,
30: 4,4,4,2,3,4,3,3,3,4,
40: 3,3,3,4,3,3,3,3,2,2,
50: 2,3,4,3,4,4,4,3,4,4,
60: 3,3,3,3,4,3,3,3,2,3,
70: 3,4,4,4,3,3,3,3,2,2,
80: 3,3,2,3,3,4,3,3,3,3,
90: 3,2,4,3,4,3,3,3,3,3,
3990-4000: 3,3,4,4,3,3,3,3,4,3,

4000-4010: 4,4,3,3,2,3,3,4,4,3,
20: 3,4,3,3,4,3,4,3,3,4,
30: 3,3,3,3,4,3,3,4,3,3,
40: 3,3,4,3,3,4,3,4,3,3,
50: 3,3,2,3,3,3,3,4,3,3,
60: 3,2,4,3,3,3,3,3,3,2,
70: 3,3,3,3,3,3,2,2,3,2,
80: 2,3,4,3,3,3,2,4,3,2,
90: 2,1,1½,1½,3,3,3,4,5,4,
4090-4100: 5,4,4,4,3,4,4,4,4,4,

4100-4110: 3,2,3,3,4,4,3,4,5,4,
20: 4,4,3,4,4,3,4,4,3,5,
30: 3,4,5,4,3,4,3,4,4,4,
40: 4,4,4,4,4,4,3,3,3,4,
50: 4,4,2,2,3,3,4,4,4,4,
60: 3,3,3,4,4,4,4,4,4,4,
70: 3,2,1,3,4,5,4,3,4,4,
80: 3,3,4,3,4,4,4,3,4,4,
90: 4,4,4,4,4,4,4,4,4,4,
4190-4200: 4,4,4,3,3,3,3,4,4,4,

4200-4210: 4,5,5,5,4,3,3,3,3,3,
20: 3,3,3,4,4,4,4,3,4,4,
30: 4,3,4,4,2,2,2,2,3,3,
40: 5,4,5,4,4,5,4,4,3,3,
50: 3,3,3,3,3,3,4,4,4,4,
60: 4,3,4,3,4,4,4,4,5,4,
70: 4,4,4,4,6,6,5,4,3,2,
80: 3,3,2,2,3,3,4,5,5,5,
90: 5,5,5,6,5,4,4,4,5,4,
4290-4300: 4,3,3,1,1,2,2,4,3,4,

4300-4310: 4,4,4,5,4,4,5,4,5,4,
20: 4,4,4,5,5,3,5,5,4,4,
30: 4,5,4,4,4,3,4,4,4,4,
40: 4,3,3,4,4,5,4,4,4,4,
50: 4,4,4,4,4,4,4,4,4,4,
60: 4,4,5,6,5,4,4,4,4,3,
70: 5,4,4,5,5,5,5,4,4,3,
80: 4,4,4,4,4,5,5,5,4,4,
90: 4,5,4,4,4,5,4,4,4,4,
4390-4400: 4,5,4,4,4,4,3,3,3,1,

4400-4410: 2,4,4,4,5,4,4,5,5,4,
20: 4,4,4,5,3,3,5,5,6,4,
30: 4,5,4,4,5,3,5,4,4,5,
40: 4,4,3,3,2,4,4,4,4,5,
50: 5,4,4,2,4,3,6,6,4,4,
60: 3,3,2,2,1,2,2,6,3,5,
70: 5,5,6,6,6,5,6,4,5,5,
80: 6,5,5,3,4,5,4,5,4,5,
90: 5,4,6,5,5,6,5,6,3,5,
4490-4500: 4,4,3,3,3,3,3,2,2,3,

4500-4510:	3,4,4,4,4,5,4,4,5,4,	
20:	3,4,4,5,4,4,3,3,3,5,	
30:	5,4,4,4,5,5,5,3,3,2,	
40:	3,3,4,5,2,2,2,5,4,3,	
50:	4,4,5,3,3,5,4,4,4,4,	
60:	3,3,4,4,4,3,3,3,4,5,	- R.T.-4560' @ 11:35 A.M., 12/8/82.
70:	2,3,4,5,5,3,4,4,4,5,	- Resume drlg. 3:55 P.M. Strap out of hole: 4565.45'=4566.98'.
80:	4,4,4,4,4,4,5,3,3,4,	
90:	3,3,3,3,4,4,5,3,4,3,	
4590-4600:	3,2,2,2,2,2,2,2,2,3,	
4600-4610:	4,3,3,3,4,3,3,3,3,3,	
20:	3,4,3,5,4,4,4,3,2,2,	
30:	2,2,3,3,3,2,2,3,2,2,	
40:	3,3,3,4,4,4,3,4,4,4,	
50:	4,4,3,4,4,5,4,4,4,4,	
60:	5,3,4,4,4,3,3,3,3,3,	
70:	2,2,3,2,3,3,3,3,3,4,	
80:	4,4,3,4,4,4,4,3,3,3,	
90:	3,3,4,4,3,3,3,2,2,2,	
4690-4700:	2,2,2,3,3,3,2,2,3,3,	
4700-4710:	4,3,3,4,3,3,3,3,3,3,	
20:	3,4,3,4,3,3,3,3,3,3,	
30:	3,3,3,3,3,3,3,3,4,2,	
40:	3,3,3,4,2,3,2,2,2,2,	
50:	1,2,1,1,2,3,4,3,4,4,	
60:	3,3,3,3,2,3,2,3,3,2,	
70:	2,1,2,2,3,3,2,2,2,3,	
80:	2,3,4,3,2,3,2,2,2,2,	
90:	3,2,2,2,2,3,2,3,4,4,	
4790-4800:	4,1,1,1,2,2,5,3,2,2,	
4800-4810:	3,3,4,3,2,2,1,2,3,3,	
20:	2,1,2,1,1,1,2,3,3,2,	
30:	2,3,5,5,5,5,5,4,5,4,	
40:	4,3,2,3,3,5,4,5,4,2,	
50:	2,2,1,1,2,2,3,2,2,2,	
60:	½,½,½,½,½,1,1,1,2,2,	
70:	2,2,2,2,2,2,2,1,1,3,	
80:	3,3,2,2,3,2,2,2,2,2,	- circu. spls. 8:26 A.M., 12/9/82
90:	2,3,3,3,3,2,3,3,2,1,	
4890-4900:	1,2,2,3,3,3,2,2,2,2,	

4900-4910: 2,2,2,2,2,3,2,2,2,2,2,
20: 2,2,2,2,2,2,2,2,2,3,2,
30: 2,2,2,2,2,2,3,2,3,3,3, - Circu. spls. 1:14 P.M., 12/9/82
DST #1. Res. drlg. 7:15 A.M., 12/10/82
40: 3,3,3,3,3,3,3,2,2,2,2,
50: 3,3,3,3,3,3,3,3,3,4,3,
60: 3,3,3,2,5,2,3,2,2,4,
70: 2,3,2,3,3,3,2,2,2,2,
80: 2,2,2,3,2,3,2,3,2,2,
90: 3,3,4,4,3,2,3,3,3,3,
4990-5000: 2,2,3,3,3,3,2,2,2,1,

5000-5010: 2,2,3,2,3,2,2,3,3,2,
20: 3,3,3,3,3,4,2,3,4,3,
30: 2,2,3,3,3,3,3,3,3,3,
40: 2,4,3,3,3,3,3,3,3,4,
50: 3,3,3,3,3,3,3,4,3,3,
60: 3,3,3,3,3,3,3,3,4,4,
70: 4,4,3,3,2,3,3,3,3,3,
80: 3,2,3,2,2,3,3,3,3,3,
90: 2,2,2,3,2,2,2,3,3,3,
5090-5100: 2,3,2,2,2,2,2,2,2,3,

5100-5110: 3,3,3,4,3,3,3,4,4,4,
20: 4,4,4,4,4,4,4,5,3,4,
30: 4,4,3,4,5,4,4,5,4,3,
40: 3,3,3,3,4,3,3,4,3,3,
50: 4,3,3,5,4,4,3,2,3,2,
60: 2,4,4,3,3,2,1,2,1,2,
70: 2,4,2,1,2,2,3,4,3,2,
80: 2,3,2,3,3,2,2,2,3,2,
90: 3,2,3,6,4,4,3,5,6,5,
5190-5200: 8,6,7,6,7,6,7,6,8,6,

5200-5210: 7,6,7,6,6,5,6,6,6,7,
20: 5,6,7,6,6,5,6,7,6,7,
30: 6,5,5,7,5,7,7,7,8,9,
40: 9,7,10,9,9,8,8,10,8,10 - T.D. - 5240' - 4:00 A.M. Lost Circu.