

M. BRADFORD RINE

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GEOLOGIST'S REPORT

COMPANY SHAKESPEARE OIL COMPANY, INC.

LEASE GLASSMAN #5-35

FIELD UNNAMED

LOCATION 335'FNL & 1990'FEL

SECTION 35 TOWNSHIP 12S RANGE 32W

COUNTY LOGAN STATE KANSAS

CONTRACTOR HD DRILLING CO.

COMMENCED DRILLING MARCH 24, 2011

COMPLETED DRILLING APRIL 03, 2011

RTD 4700 FEET LTD 4697 FEET

MUD UP AT 3510 FEET MUD TYPE CHEM.

API: 15-109-20992

ELEVATIONS

KB 2994 FEET

DF 2992 FEET

GL 2984 FEET

MEASUREMENTS ARE ALL FROM: KB

CASING

8-5/8"23# @ 225'

5-1/2" CSG SET

ELECTRICAL SURVEYS D/N SUITE

IND SUITE

MICRO

SAMPLES SAVED FROM 3800 FEET TO 4700 FEET

DRILLING TIME KEPT FROM 3800 FEET TO 4700 FEET

SAMPLES EXAMINED FROM 3800 FEET TO 4700 FEET

GEOLOGICAL SUPERVISION FROM 3800 FEET TO 4700 FEET

NOTES: PLEASE NOTE ADDITIONAL DRILLING AND GEOLOGICAL INFORMATION ON THE FOLLOWING "HEADER" PAGES.

REMARKS: Based on sample observations, drill stem test results, and electric log evaluation, it was the decision of the Operator to set production casing for further testing, on the "Glassman" 5-35, on April 04, 2011.

Respectfully submitted,
M. Bradford Rine

M. Bradford Rine, Lic # 204
04/04/11

DAILY PENETRATION	
DATE	DEPTH
03-24-11	MRT, RU, Spud @
03-25-11	Drlg 228'
03-26-11	Drlg 1895'
03-27-11	Drlg 2860'
03-28-11	Drlg 3449'
03-29-11	Drlg 3940'
03-30-11	Tooth for DST 1 4114'
03-31-11	Drlg 4125'
04-01-11	Tooth for DST 3 4250'
04-02-11	Drlg 4421'
04-03-11	Tooth for DST 4 4600'
04-04-11	W.S.O. - 4700'
	after logs

BIT RECORD						
NUMBER	SIZE	MARK	TYPE	DEPTH OUT	FEET	HOURS
1	12 1/4	JZ	RR	228	228	2 1/4
2	7 7/8	JZ	HA25	2952	3724	77
3	7 7/8	JZ	HA25	4700	748	46
Surf Csg: 5 jts, 8 5/8" - 73 3/4" @ 225' (Allied) cem with 175 sa Class A, 32 CC - 22 gel. c.c.						
Surveys: 1/2° 228'						
3/4° 3944'						
3/4° 4700'						

GENERAL INFORMATION

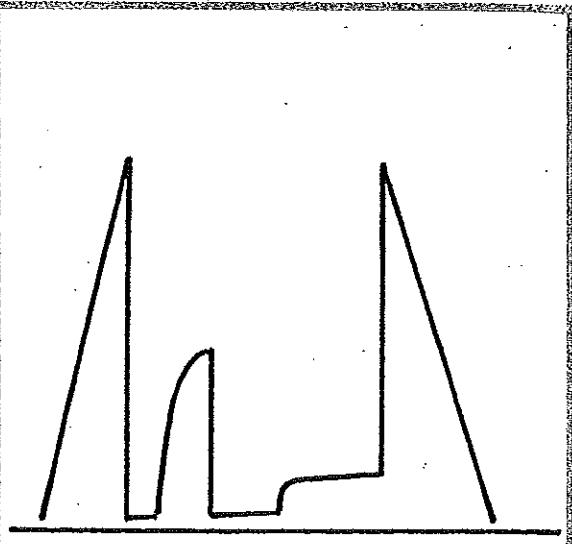
Rig: H.D. Drilling #2
 Pump: National K-380 6 x 14
 Drawworks: Unit Midcont 11-34
 Collars: 487' 2 1/2 x 6 1/4
 Drill pipe: 4 1/2" - 11.6" XH
 Tool pusher: Doug Roberts

Mud: Mudco (Reid Atkins)
 Gas Detector: None
 DST's: Trilabite (Walt Walter)
 Logs: Weatherford (R. Huffman)
 Water: pump from pond well on lease
 Co-Repres: office: (Don Williams)
 field: (None)

FORMATION TOPS	SAMPLE TOPS	ELECTRIC LOG TOPS	SUB-SHA DATUM	STRUCT. REF.
ANHYDRITE	2515	2513	+481	-11
B/ANHYDRITE	2537	2534	+460	-8
HEEBNER SH	3980	3978	-984	-11
TORONTO	4008	4006	-1012	-10
LANSING	4021	4017	-1023	-9
MUNCIE CREEK SH	4168	4166	-1172	-8
STARK SH	4252	4249	-1255	-9
B/KANSAS CITY	4321	4320	-1326	-8
MARMATON	4345	4345	-1351	-8
PAWNEE	4459	4458	-1464	-9
MYRIC STATION	4496	4493	-1499	-10
FT. SCOTT	4511	4510	-1516	-9
CHEROKEE SH	4536	4533	-1539	-8
JOHNSON Zn	4580	4577	-1583	-9
MISSISSIPPI	4620	4620	-1626	+8
TOTAL DEPTH	4700	4697	-1703	—

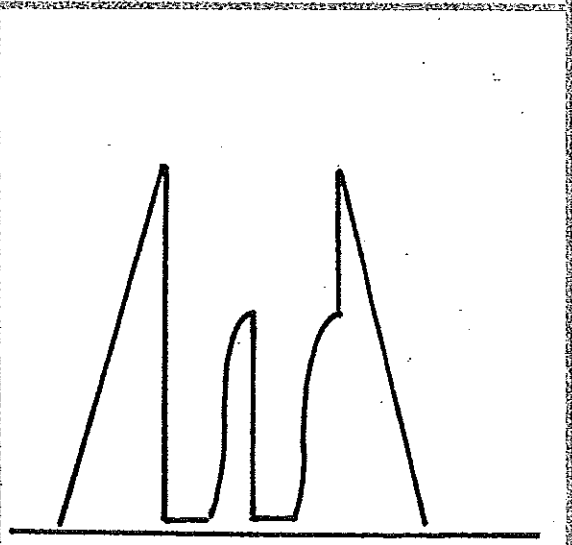
REFERENCE WELL: Shakespeare "Glassman #1-35" Sec. 35-12s-32w

TEST # 1 INTERVAL: 4091 - 4114
 FORMATION: Lsg D Zn
 TIMES: 30 - 45 - 60 - 90
 INITIAL BLOW: wk: built to 2 1/2" i.b.
 FINAL BLOW: wk: built to 2 1/2" i.b.
 NFP 1969 NHP 1959
 NFP 16-40 NHP 41-73
 NSIP 944 NSIP 263
 TEMPERATURE: 112° F
 REC: 130' Total Fluid
 130' o.w.c.m.: 02% oil - 45% wt - 53% mud

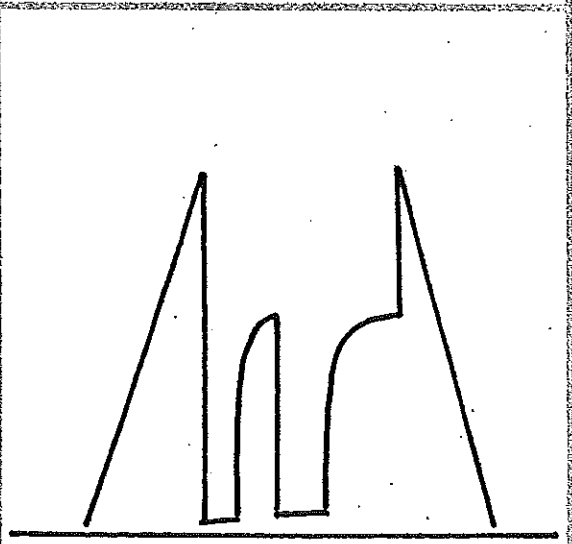


(could not get chl on wtr)

TEST # 2 INTERVAL: 4196 - 4226
 FORMATION: Lsg I Zn
 TIMES: 30 - 30 - 30 - 30
 INITIAL BLOW: wk: died in 20 min
 FINAL BLOW: wk: died in 25 min
 NFP 2054 NHP 2035
 NFP 21-36 NHP 36-53
 NSIP 1238 NSIP 1202
 TEMPERATURE: 112° F
 REC: 70' o.c.m.: 40% oil - 60% mud



TEST # 3 INTERVAL: 4224 - 4250
 FORMATION: Lxc J
 TIMES: 30 - 30 - 45 - 60
 INITIAL BLOW: Fr: built to 5" i.b.
 FINAL BLOW: Fr: built to 7" i.b.
 NFP 2066 NHP 2028
 NFP 21-78 NHP 83-115
 NSIP 1276 NSIP 1276
 TEMPERATURE: 121° F
 REC: 190' Total Fluid, 60% gas in pipe
 15' oil : 100% - -
 75' o.w.c.m.: 02% 38% 60%
 120' n.c.w.: - 60% 40%



CHL/wtr 85,000 p.p.m. (CHL/mud: 3200 ppm)

DST # 4 INTERVAL: 4555 - 4600

FORMATION: Johnson

TIMES: 15 - 45 - 30 - 60

INITIAL BLOW: Sp. Lab. 40 sec

FINAL BLOW: Sp. Lab. 1 1/4 min (4" b.b.)

HPF 2307 HHP 2286

HPF 67-112 HHP 109-176

HPF 292 HHP 235

TEMPERATURE: 127° F

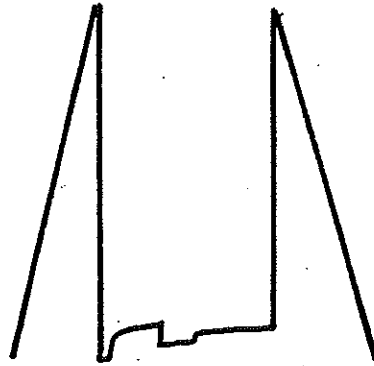
REC: 390' Total Fluid, 9 1/2 in 5 1/2" mud

90' g/cm: 20% 10% - 70%

120' g/cm: 10% 75% - 15%

180' g/cm: 20% 40% 10% 10%

oil 29° API



DST # _____ INTERVAL: _____

FORMATION: _____

TIMES: _____

INITIAL BLOW: _____

FINAL BLOW: _____

HPF _____ HHP _____

HPF _____ HHP _____

HPF _____ HHP _____

TEMPERATURE: _____

REC: _____

DST # _____ INTERVAL: _____

FORMATION: _____

TIMES: _____

INITIAL BLOW: _____

FINAL BLOW: _____

HPF _____ HHP _____

HPF _____ HHP _____

HPF _____ HHP _____

TEMPERATURE: _____

REC: _____

LEGEND

	SANDSTONE		LIMESTONE		CHERT		CARB. SH./ COAL
	SILTSTONE		DOLOMITE		GRANITE WASH		CONGLOM- ERATE
	SHALE		ANHYDRITE/ GYPSUM		GRANITE		OOBITIC/ OOMOLDIC

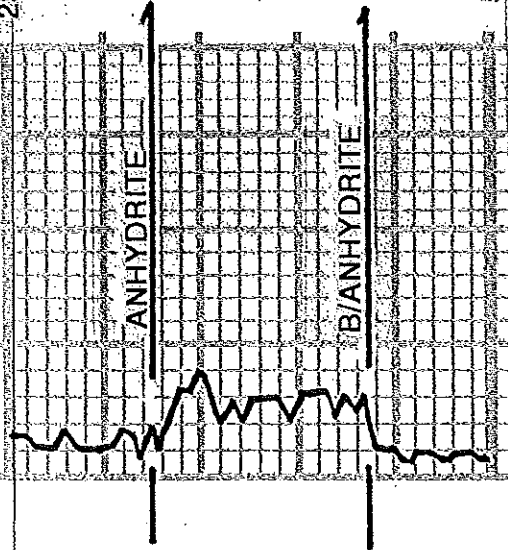
DRILLING RATE
MINUTES/FOOT

5 10 15

DEPTH
2500

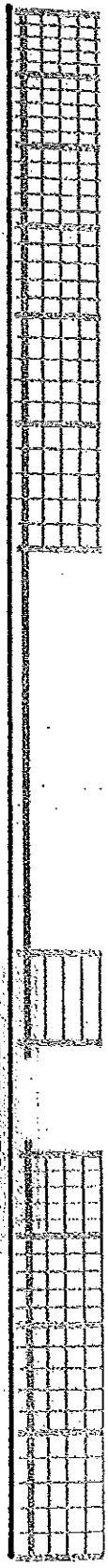
SAMPLE
DESCRIPTIONS
(Logged)

GAS DETECTOR CURVE
TOTAL GAS/WET GAS
25% 50% 75% 100% 125%



*Anhydrite bed based on
drill time only.*

DEPTH BREAK



3800

30

ls
wp-cr tan
fragile, pr. x pr. g - dms.
sp.ally. (washes white)

34 34

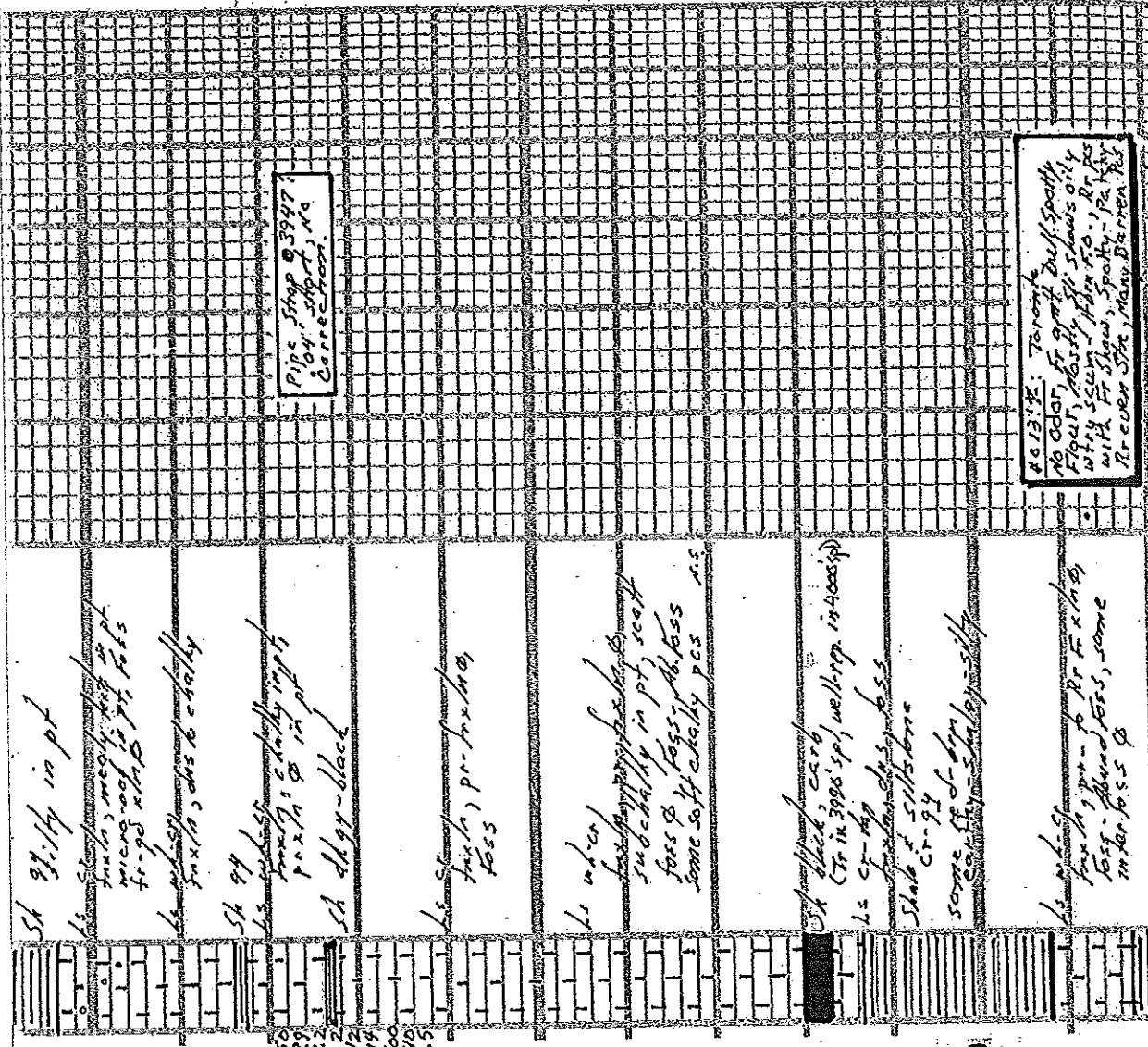
ls
wp-cr
fragile, sh. to long string
chalky & mushy in pt.
to ss
(washes white)
sh. 94

ls
wh. clay & muddy in pt.
to xly, subgrading feat.
in pt. (washes white)
to ss
(washes white)

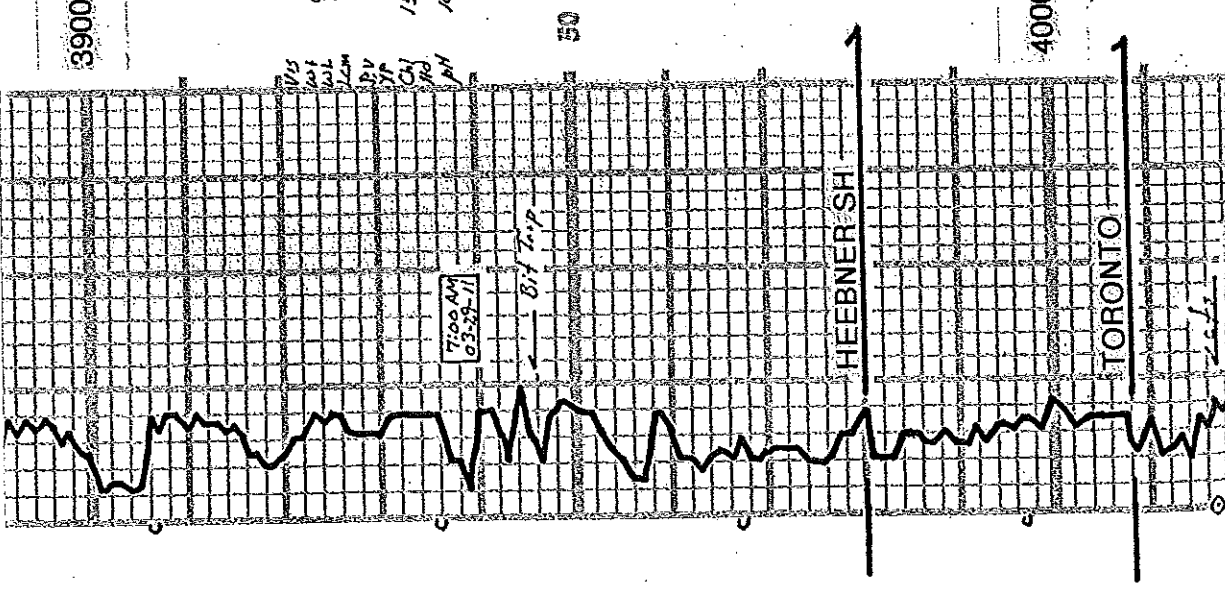
sh. 94

Silts fine
pr. 90 fri
v. pr. 90 shaly in pt.
pr. 90 fri





4013: Toronto
No odor, fr grt, dull spally
Flint, mostly shaly, shaws oily
with some fr, fr xln, pr, ps
with fr shaw, spally, pr, ps
Rever Ste, Mary, Darren



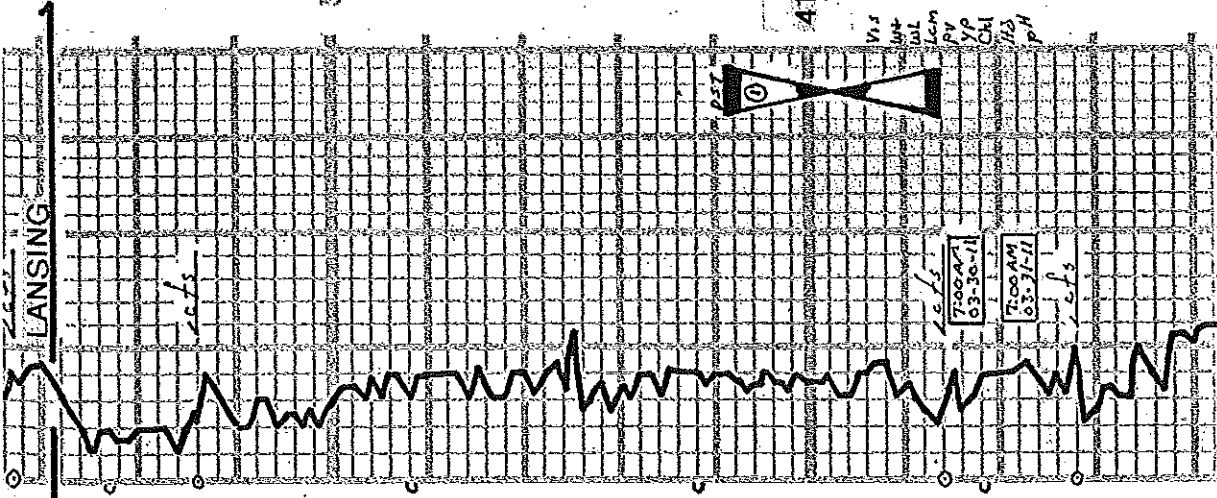
W/S
W/S
W/S
W/S
W/S
W/S
W/S
W/S
W/S
W/S
W/S

3900

4000

50

LANSING



11.11.11 10.30

Ls. 0.5' in packd' soil, quest.
 Gen. ppt., base of seam
 Ls. 0.5' in packd' like
 some above
 beginning of clay sim
 (w/ clay mask)

 Ls. wh. c. l.
 mostly musky to soft
 clay, some spherulic
 Seal 0.5' - 5' on
 25. Fine ls, dns, firm, bas
 Sh 9' greenish
 some clay

 Ls. 0.5' in
 fine ls, spherulic in pt
 105, 120, 130, 140
 Seal patches pp
 Sh 9'

 Ls. calc. or
 fine ls, dns & fine to
 soft
 pp white patches, st. foss. r.s.
 Sh 9'

 Ls. 0.5' in
 fine ls, musky to soft
 clay, some spherulic
 Seal patches pp
 Sh 9'

 Ls. 0.5' in
 fine ls, mostly dns & spherulic
 with weak patches pp
 on pp pp

 Ls. 0.5' in
 packed soil in clay to
 dns con
 N.S.
 25. what
 in bank - fine ls, dns

4025 14. 1. 59 A
 No Obs, V. R. 1.5' Full Spotty Flour,
 R. P. 5' with 5' Spotty 5' S. S.
 V. S. 1' Show clay w/ w. 5' seam
 Mostly barren

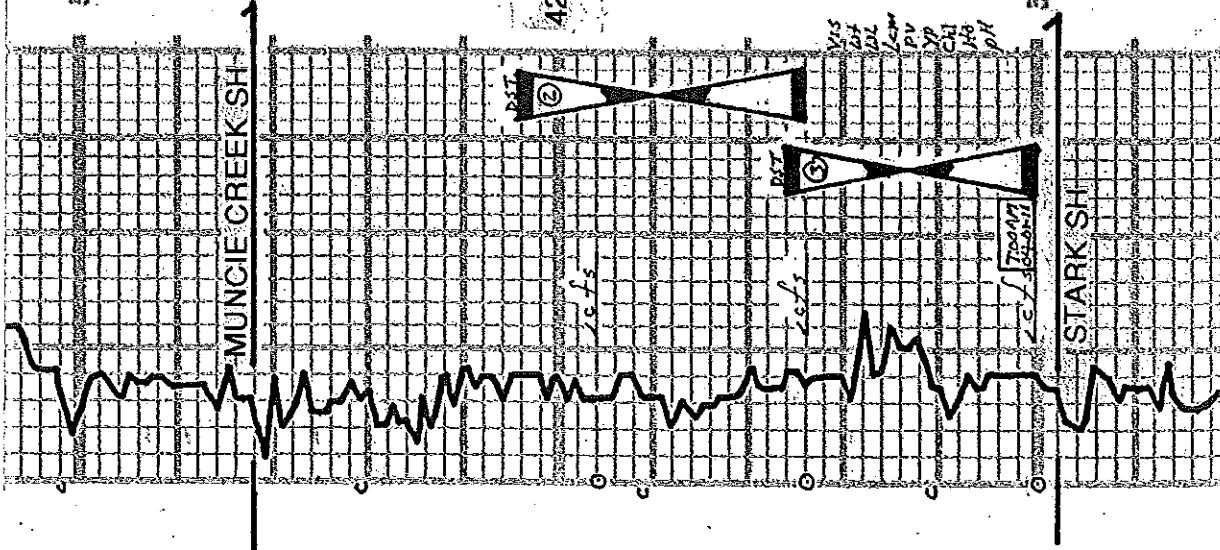
4017 7. 1. 59 B
 No Obs, Seal Dyll Flour,
 Low 105, 120, 130, 140
 Spotty 15' to 5' S. S.
 Show clay seam - D.A.
 V. S. 1' oil

4097 - 4114
 30-45-60-90
 Rec: 130' o.w.c.m
 15' P: 1694 40
 15' P: 41-73
 15' P: 263
 F.S.P.

4105 7. 1. 59 D
 Mod Obs, Fr. Seal Mod - 9' 1/2
 Flour, Mod 105 with
 Spotty 15' to 5' S. S. - 100
 S. S. 1' - Fr. Show clay seam
 Fr. 1'

4120 14. 1. 59 E
 V. Fr. Obs, Seal Full Flour,
 Seal Spotty - 105, 120, 130, 140
 S. S. with 5' show clay seam
 and R. V. S. 1' Show Fr.

R. CURR 576, Mary, Darwin, 7.3



MUNCIE CREEK SH

STARK SH

4200

50

50

PST 2: 4194-4226
30-30: 30-30
Rec: 76, 0 cm
IFP: 21-36
1500: 1238
IFP: 76-53
FSP: 1202

4225-4235 I
v. fine, med. flow
Med. silty, to pebbly
5 ft. thick. Silty sand, silty sand
5 ft. Show Brn Cassy Fr.

DST 3: 4224-4250
30-30: 30-30-30-60
Rec: 60, 99
IFP: 15, 60
120: 50-50
IFP: 21-78
1500: 1276
IFP: 87-115
FSP: 1276

4241-4242 Lvc. J
Ag. 009, Ab. Med. Brk. Flow
Ag. 009: pes with sh brn-sh
5 ft. with mix of sh, fr. sh
14-18-18 Brn Fr. 2, some
barren vs. 95

4270-4271 Lvc. K
Ag. 009, Br. Pm. Flow
Widely, soft fr. Ag. 009

ls. clayey sh
v. sh. fine gr. ds
Some silty sh
some soft w/ cherty

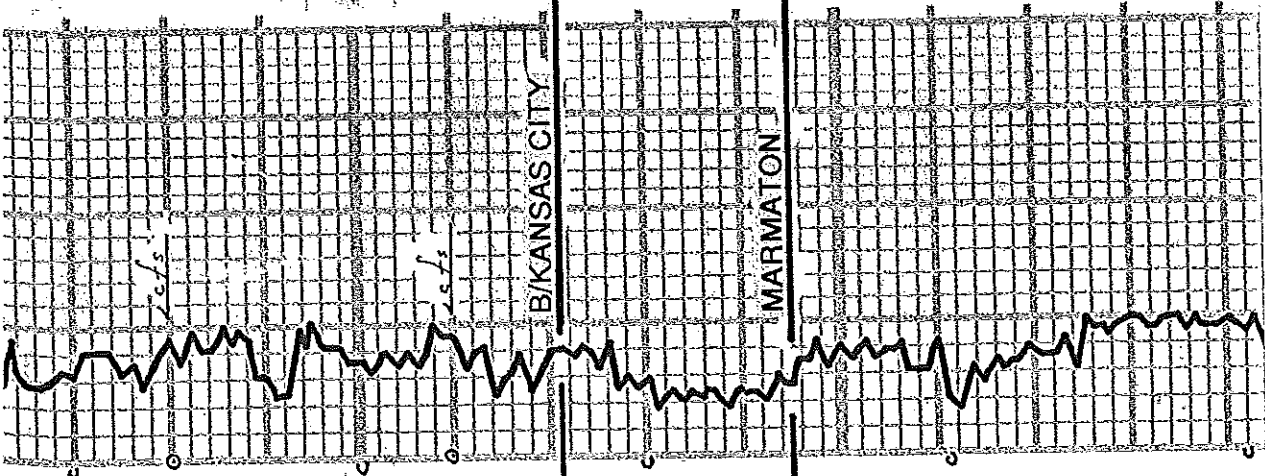
sh black, carb
(fine, fines, in 4180: spl)
ls cr. tan sh
fine ds, 655
(pos. spotty & sh, nora.)
sh 94, silty in pt

ls i. Dolom ls i. Lmcy Dol.
wh-gr, fine, ds
Subsac text is 12, pr. fr.
some subcherty, less in pt.

sh black
ls clayey
sh. 94 - sandy, ds, 655
ls. wh-gr subcherty with
fine out of patches: pes
with sh, sh, sh, sh
sh 1095, 655, some cool,
Ch. Fr, subtrans.

sh 94, silty
ls
ls
sh 94, subcherty in pt
ds in pt, med & of patches
pes with pr. x in pt
sh 94, silty
sh black, carb
ls cr, ds
sh 94 = dk, 94, 94

ls
sh 94, silty
sh 94, silty
sh 94, silty

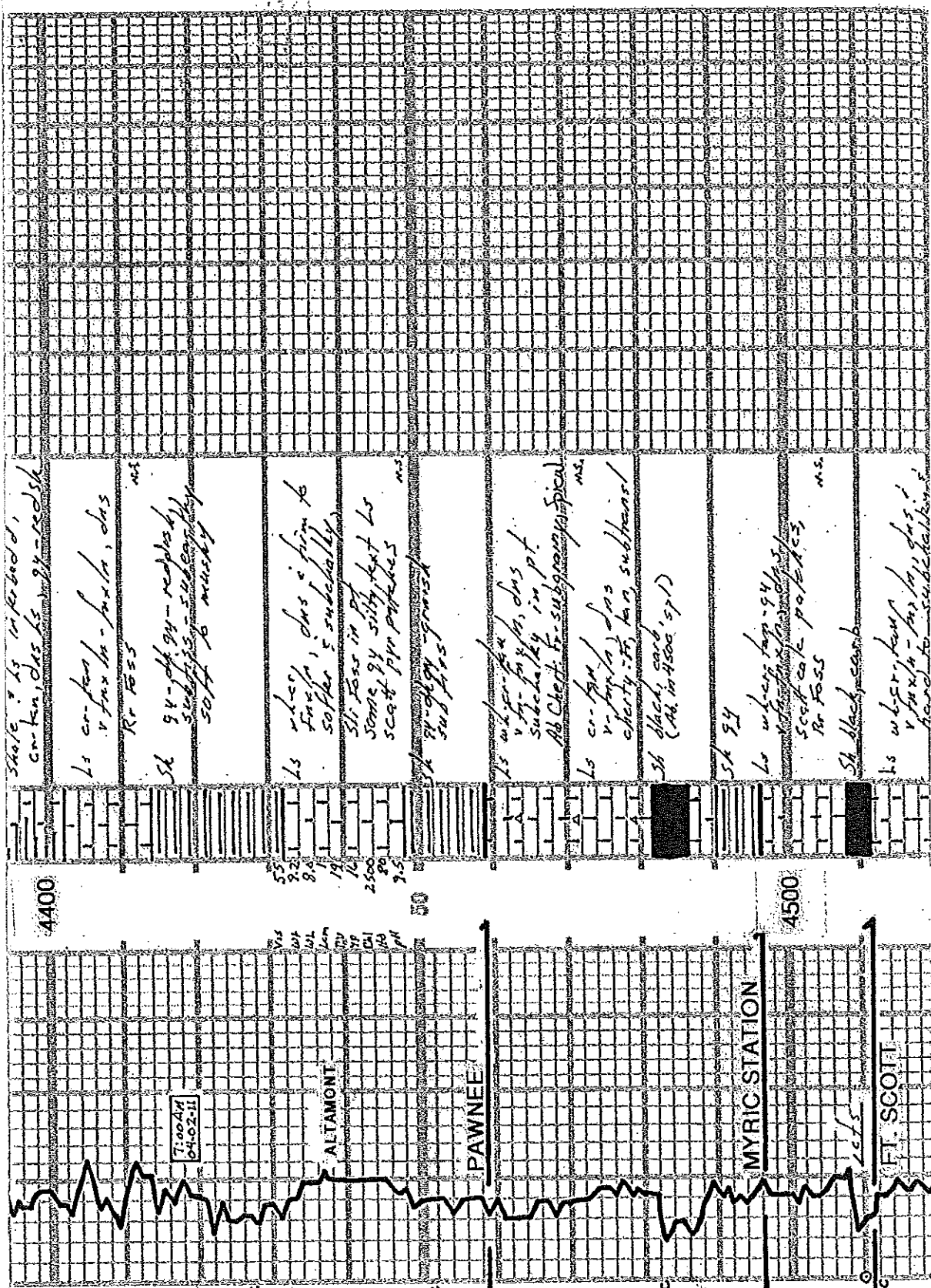


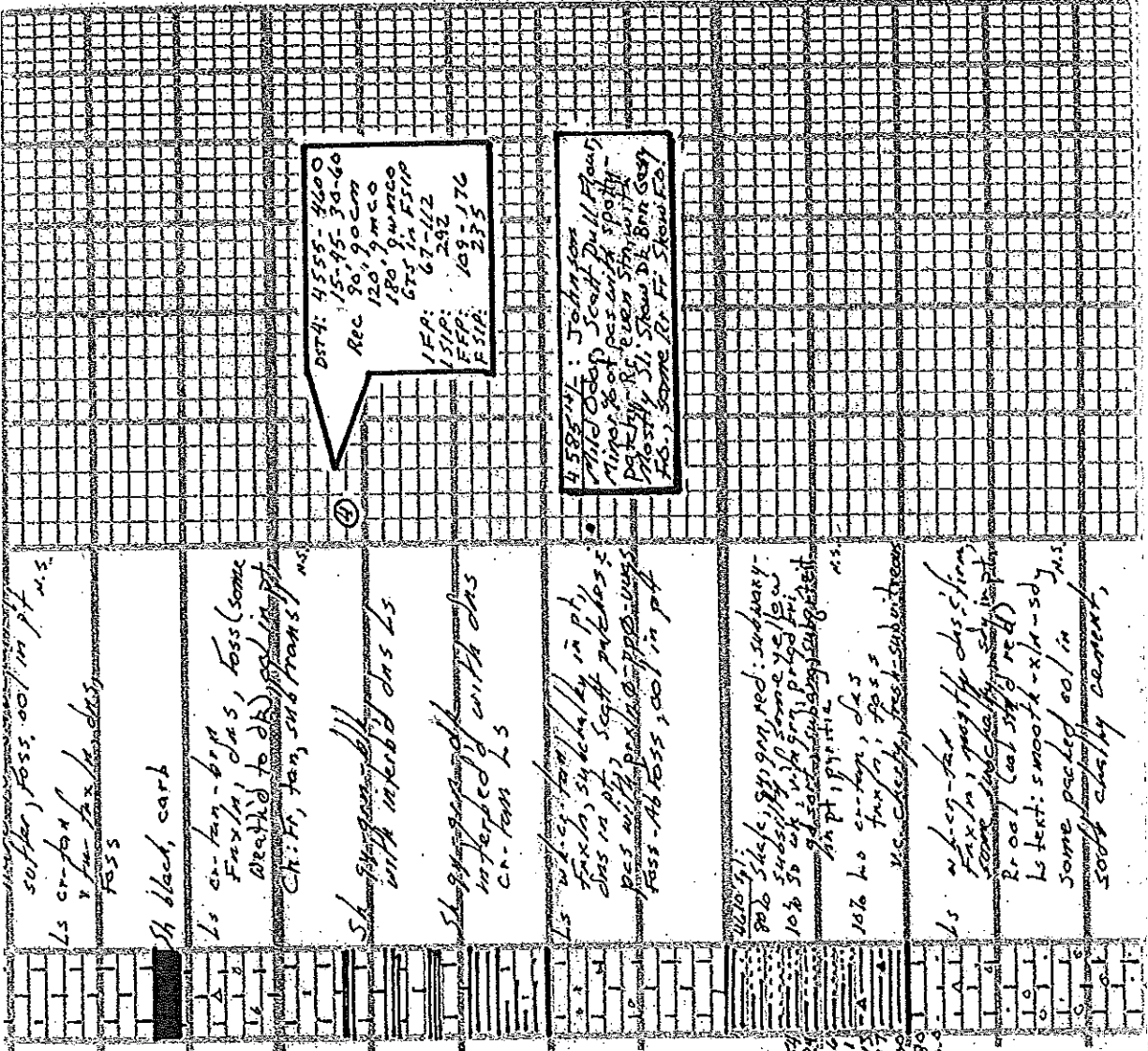
ls	wh. s. tan f. g. m., leaf sp. p. mostly well sorted with leaf pr. 1/4 in. wool &	ls	wh. s. tan f. g. m., leaf sp. p. mostly well sorted with leaf pr. 1/4 in. wool &
ls	cr. pl. gr. v. tan. - tan. l. d. s. f. s. sh. tan, subtransl.	ls	cr. pl. gr. v. tan. - tan. l. d. s. f. s. sh. tan, subtransl.
sh	black sand (repre. in 9300 sp.)	sh	black sand (repre. in 9300 sp.)
ls	sh. gr. tan subchaly. f. s. - Ad. f. s. S. s. redish. m. / opposite sh.	ls	sh. gr. tan subchaly. f. s. - Ad. f. s. S. s. redish. m. / opposite sh.
sh	dk. gr.	sh	dk. gr.
ls	sh. tan, chaly. to dark brown (was has white)	ls	sh. tan, chaly. to dark brown (was has white)
ls	Siliceous - shaly gr. - s. m. - v. tan soft to firm, much mucky tan	ls	Siliceous - shaly gr. - s. m. - v. tan soft to firm, much mucky tan
ls	cr. tan p. g. s. chaly. m. pt. f. s. (washes white)	ls	cr. tan p. g. s. chaly. m. pt. f. s. (washes white)
sh	tan. red, soft - mucky (washes pink)	sh	tan. red, soft - mucky (washes pink)
ls	sh. tan, pinkish v. tan. - tan. l. d. s. f. s. head sh. chaly.	ls	sh. tan, pinkish v. tan. - tan. l. d. s. f. s. head sh. chaly.
ls	tan. sh. subgranular m. p. l. d. s. f. s.	ls	tan. sh. subgranular m. p. l. d. s. f. s.

Top 2000 ft. full flow,
widely sc. ft. tan sp. p.
partly sh. with some
tan o. l. seams & VSI sh. f. o.
Some barren &

4300

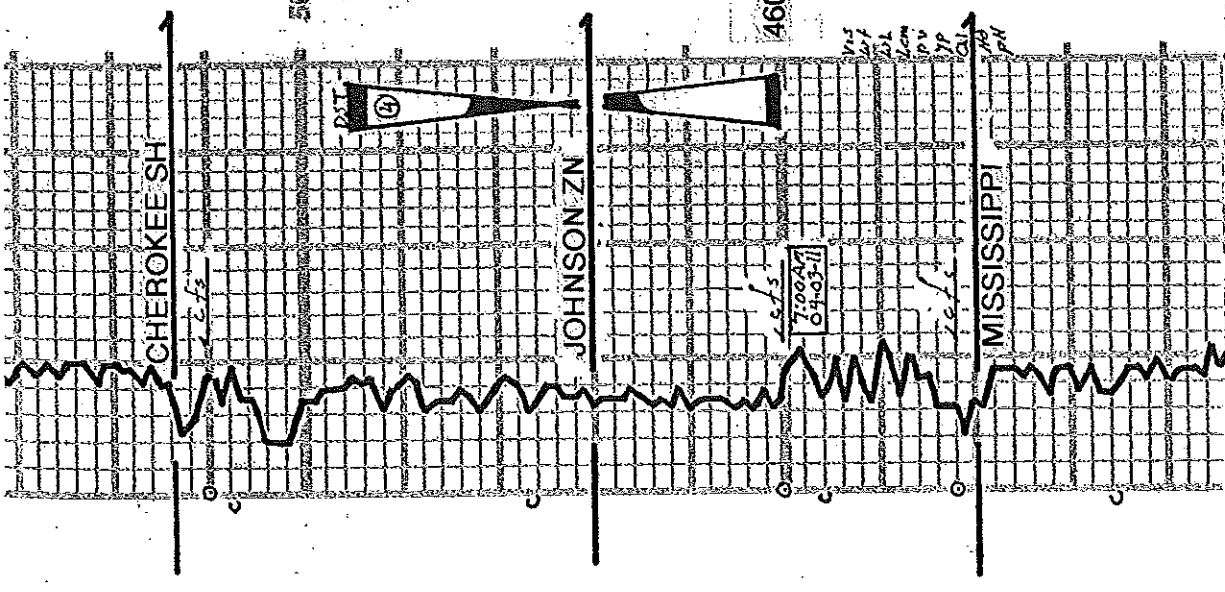
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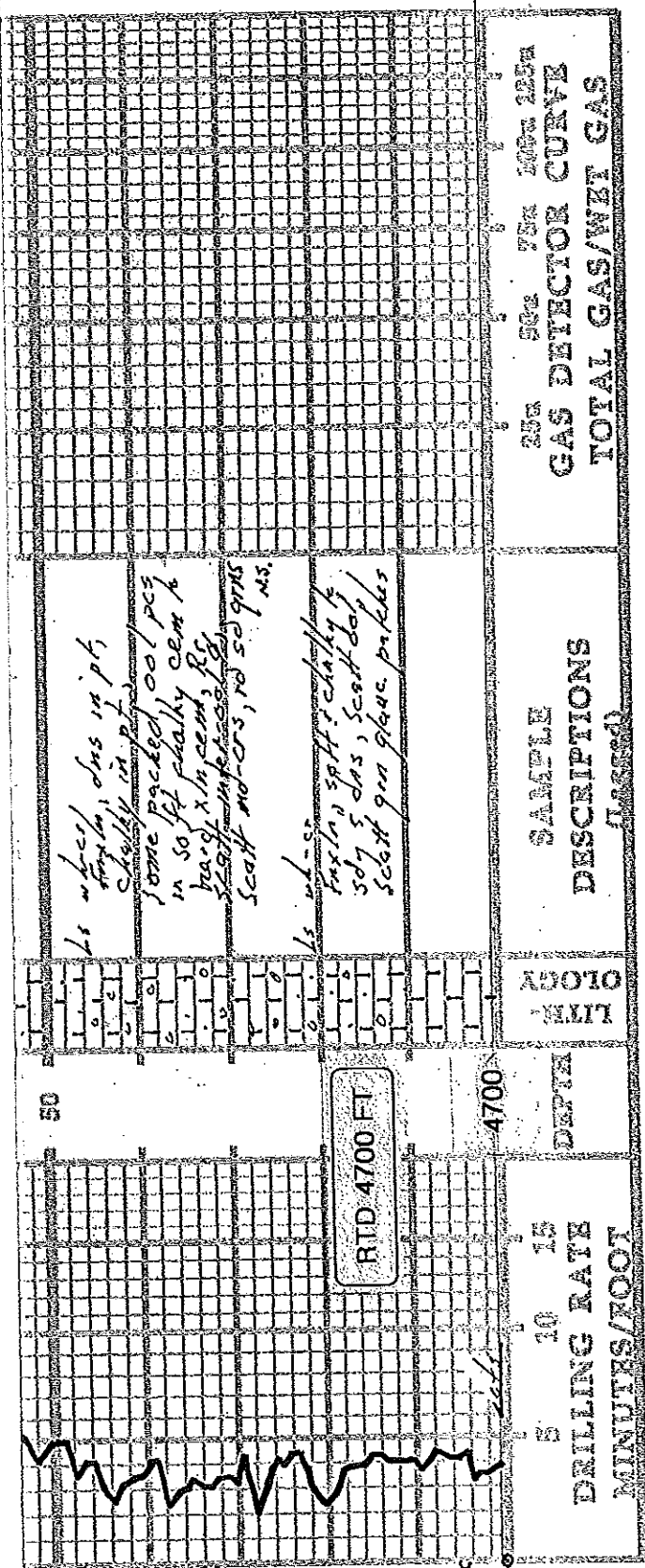




DST: 4555-4600
 Rec 30, 90 cm
 120, 9 mco
 180, 9 mco
 675 in F510
 IFR: 67-112
 292
 F51P: 109-176
 F51P: 235

4555 m: Johnson
 Mine Deep South Dull Floor
 Minor ss of pos with spots
 of chert
 Mostly S. Stone Dr. Brn Gey
 Foss, some R. F. Stone Foss





GLASSMAN #1-35
 DRILL STEM TEST SUMMARIES

DRILL STEM TEST REPORT	
Shakespeare Oil Co, Inc 202 W. Main St. Salem, Ill. 62881	Glassman 5-35 35 12s 32w Logan L.S. T. L. C. 00104
NOTE-1	

