COMPANY SANTA FE MINERALS
WELL NO. 1 NUECES MINERALS
FIELD WILDCAT
COUNTY McMULLEN
STATE TEXAS

SUPERVISING ENG: ROY R. RUSSELL
DATE 3-1-83 TO 6-12-83
DEPTH FROM 1000' TO 17,725'
CASING RECORD:

FORMATION DATA

SAND	LIME	SHALE
▨	▦	☐
☐	☐	☐

UNIT NO. — RTL-1 MUD TYPE: WATER

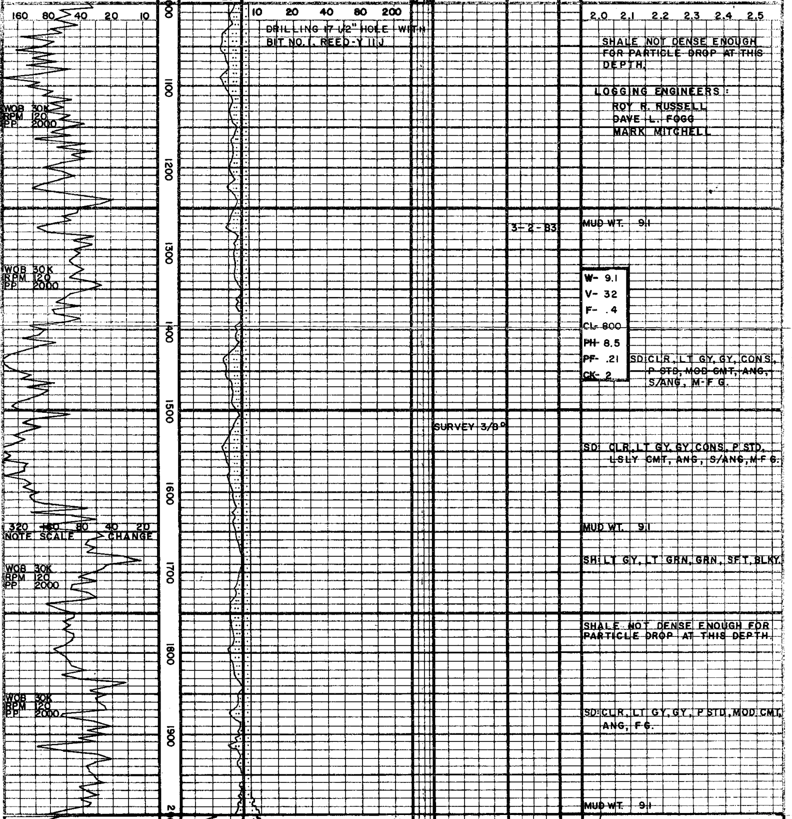
NB — NEW BIT
NDB — NEW DIAMOND BIT
NR — NO RETURNS
CO — CIRCULATED OUT
LAT — LOGGED AFTER TRIP

▨ SAND
☐ SHALE
▦ LIME
☐

——— TOTAL GAS DRLG. MUD
••••••• METHANE .1% PER DIV.
··········· ETHANE .5% PER DIV.
-·-·-·- PROPANE .25% PER DIV.
- - - - BUTANE .25% PER DIV.

2 — NON PROD.
5 — PROB. NON PROD. ■ — OIL
10 — POSS. PROD.
15 — PROB. PROD. ▨ — GAS

DRILL RATE ☐ - MIN/FT ☒ - FT/HR	DEPTH	LITHOLOGY % 75 50 25	DRILL FLUID ANALYSIS	FLUO % 0-15	ION LOG PPM'S	d EXP ☐	TEMP ☐ DATE	SHOW VALUE	SHALE PARTICLE DENSITY LOG —— GM/CC



DRILLING 17 1/2" HOLE WITH BIT NO. 1, REED-Y 11J

SHALE NOT DENSE ENOUGH FOR PARTICLE DROP AT THIS DEPTH.

LOGGING ENGINEERS:
ROY R. RUSSELL
DAVE L. FOGG
MARK MITCHELL

WOB 30K
RPM 120
PP 2000

3-2-83

MUD WT. 9.1

WOB 30K
RPM 120
PP 2000

W- 9.1
V- 32
F- .4
CL- 800
PH- 8.5
PF- .21
CK- 2

SD: CLR, LT GY, GY, CONS, P STD, MOD CMT, ANG, S/ANG, M-F G.

SURVEY 3/8°

SD: CLR, LT GY, GY, CONS, P STD, LSLY CMT, ANG, S/ANG, M-F G.

MUD WT. 9.1

WOB 30K
RPM 120
PP 2000

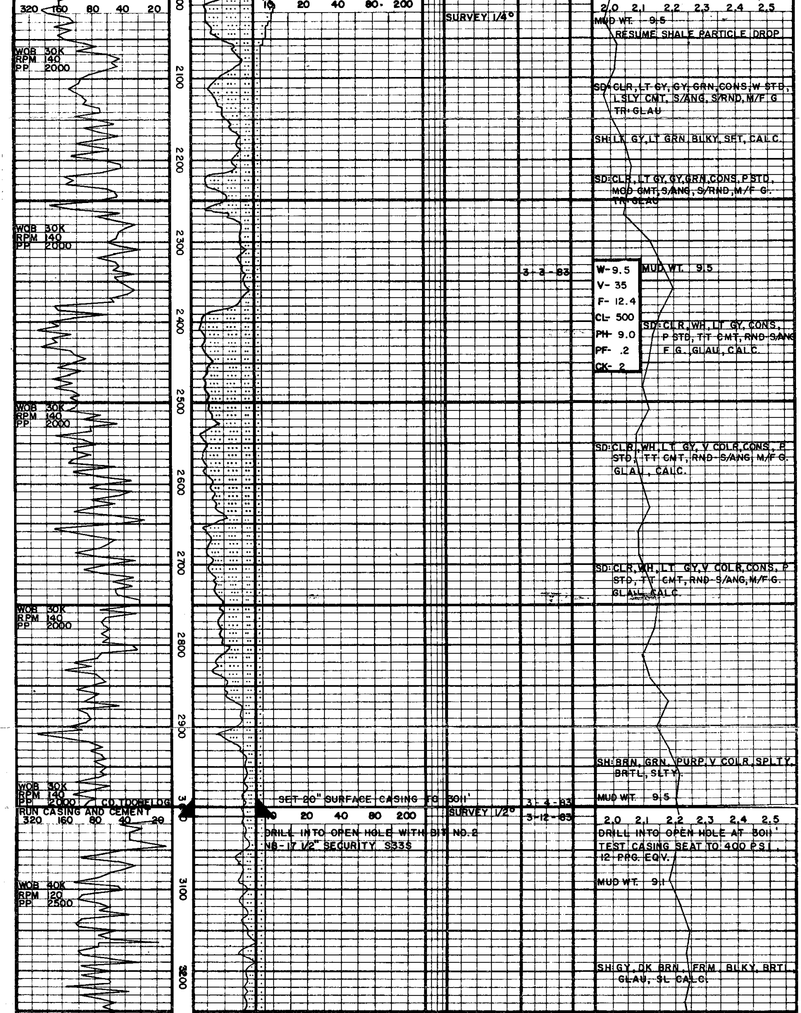
SH: LT GY, LT GRN, GRN, SFT, BLKY.

SHALE NOT DENSE ENOUGH FOR PARTICLE DROP AT THIS DEPTH.

WOB 30K
RPM 120
PP 2000

SD: CLR, LT GY, GY, P STD, MOD CMT, ANG, F G.

MUD WT. 9.1



SURVEY 1/4°

MUD WT. 9.5

RESUME SHALE PARTICLE DROP

WOB 30K
RPM 140
PP 2000

SD: CLR, LT GY, GY, GRN, CONS, W STD, LSLY CMT, S/ANG, S/RND, M/F G TR: GLAU

SH: LT GY, LT GRN, BLKY, SFT, CALC.

SD: CLR, LT GY, GY, GRN, CONS, P STD, MOD CMT, S/ANG, S/RND, M/F G. TR: GLAU

WOB 30K
RPM 140
PP 2000

3-3-83

W- 9.5
V- 35
F- 12.4
CL- 500
PH- 9.0
PF- .2
CK- 2

MUD WT. 9.5

SD: CLR, WH, LT GY, CONS, P STD, TT CMT, RND-S/ANG F G. GLAU, CALC.

WOB 30K
RPM 140
PP 2000

SD: CLR, WH, LT GY, V COLR, CONS, P STD, TT CMT, RND-S/ANG, M/F G. GLAU, CALC.

SD: CLR, WH, LT GY, V COLR, CONS, P STD, TT CMT, RND-S/ANG, M/F G. GLAU, CALC.

WOB 30K
RPM 140
PP 2000

SH: BRN, GRN, PURP, V COLR, SPLTY, BRTL, SLTY.

WOB 30K
RPM 140
PP 2000

CO. TOOH E LOG

SET 20" SURFACE CASING TO 3011'

3-4-83

MUD WT. 9.5

RUN CASING AND CEMENT

SURVEY 1/2°

3-12-83

DRILL INTO OPEN HOLE WITH BIT NO. 2 NB-17 1/2" SECURITY S33S

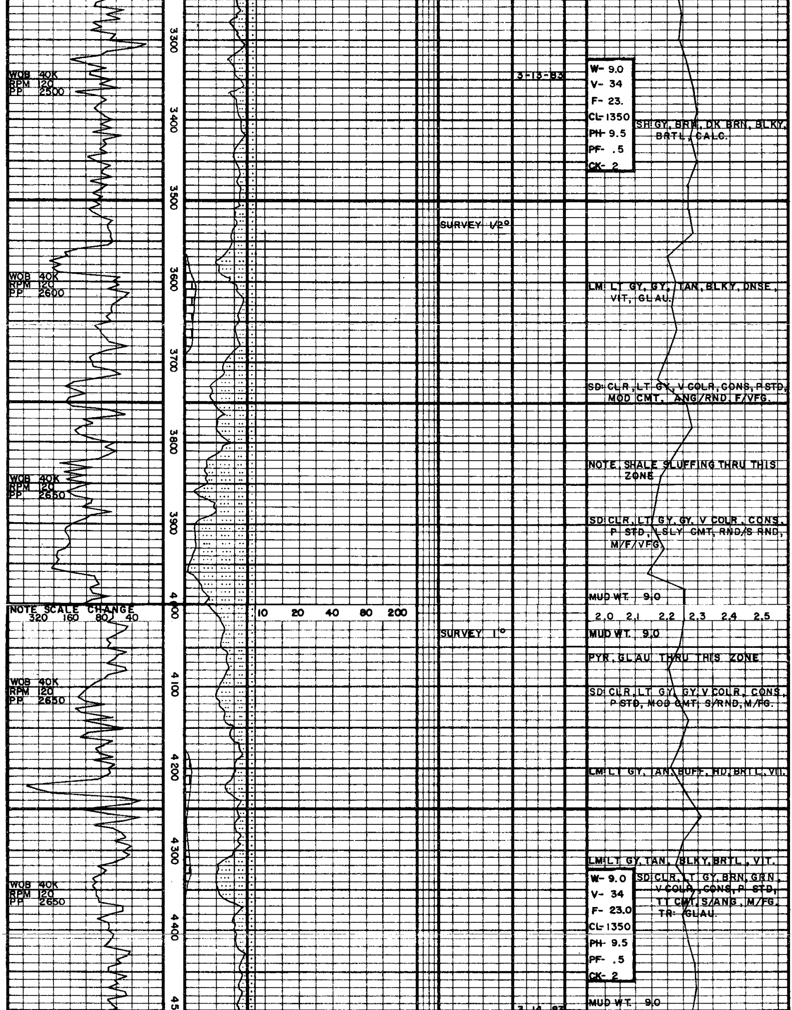
DRILL INTO OPEN HOLE AT 3011'

TEST CASING SEAT TO 400 PSI. 12 PPG. EQV.

WOB 40K
RPM 120
PP 2500

MUD WT. 9.1

SH: GY, DK BRN, FRM, BLKY, BRTL, GLAU, SL CALC.



W- 9.0
V- 34
F- 23.
CL- 1350
PH- 9.5
PF- .5
CK- 2

SH: GY, BRN, DK BRN, BLKY, BRTL, CALC.

LM: LT GY, GY, TAN, BLKY, DNSE, VIT, GLAU.

SD: CLR, LT GY, V COLR, CONS, P STD, MOD CMT, ANG/RND, F/VFG.

NOTE, SHALE SLUFFING THRU THIS ZONE

SD: CLR, LT GY, GY, V COLR, CONS, P STD, LSLY CMT, RND/S RND, M/F/VFG.

MUD WT. 9.0

MUD WT. 9.0

PYR, GLAU THRU THIS ZONE

SD: CLR, LT GY, GY, V COLR, CONS, P STD, MOD CMT, S/RND, M/FG.

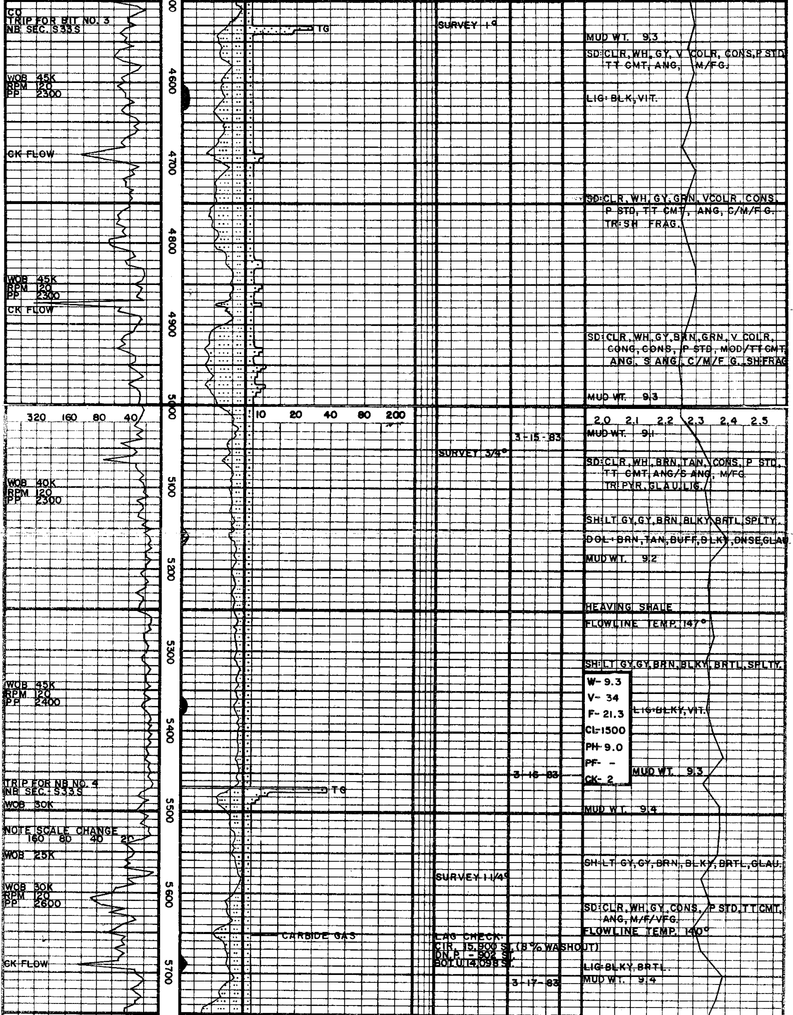
LM: LT GY, TAN, BUFF, HD, BRTL, VIT.

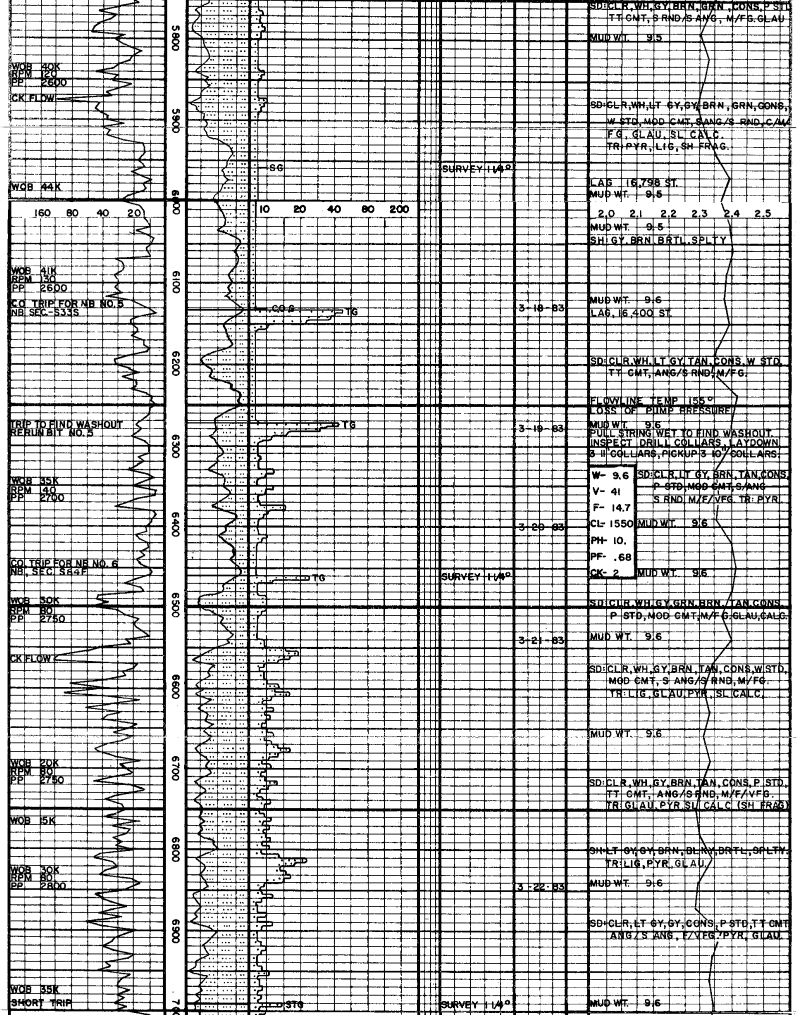
LM: LT GY, TAN, BLKY, BRTL, VIT.

SD: CLR, LT GY, BRN, GRN, V COLR, CONS, P STD, TT CMT, S/ANG, M/FG, TR: GLAU.

W- 9.0
V- 34
F- 23.0
CL- 1350
PH- 9.5
PF- .5
CK- 2

MUD WT. 9.0





WOB 40K
RPM 120
PP 2600

CK FLOW

WOB 44K

WOB 41K
RPM 130
PP 2600

CO TRIP FOR NB NO.5
NB SEC-S33S

TRIP TO FIND WASHOUT
RERUN BIT NO. 5

WOB 35K
RPM 140
PP 2700

CO. TRIP FOR NB NO. 6
NB, SEC S84F

WOB 30K
RPM 80
PP 2750

CK FLOW

WOB 20K
RPM 80
PP 2750

WOB 15K

WOB 30K
RPM 80
PP 2800

WOB 35K
SHORT TRIP

SURVEY 1 1/4°

3-18-83

3-19-83

3-20-83

SURVEY 1 1/4°

3-21-83

3-22-83

SURVEY 1 1/4°

SD: CLR, WH, GY, BRN, GRN, CONS, P STD
TT CMT, S RND/S ANG, M/FG. GLAU

MUD WT. 9.5

SD: CLR, WH, LT GY, GY, BRN, GRN, CONS,
W STD, MOD CMT, S ANG/S RND, C/M/
FG, GLAU, SL CALC.
TR: PYR, LIG, SH FRAG.

LAG 16,798 ST.
MUD WT. 9.5

MUD WT. 9.5
SH: GY, BRN, BRTL, SPLTY

MUD WT. 9.6
LAG, 16,400 ST.

SD: CLR, WH, LT GY, TAN, CONS, W STD,
TT CMT, ANG/S RND, M/FG.

FLOWLINE TEMP 155°
LOSS OF PUMP PRESSURE

MUD WT. 9.6
PULL STRING WET TO FIND WASHOUT.
INSPECT DRILL COLLARS, LAYDOWN
3 11" COLLARS, PICKUP 3 10" COLLARS.

W- 9.6
V- 41
F- 14.7
CL- 1550
PH- 10.
PF- .68
CK- 2

SD: CLR, LT GY, BRN, TAN, CONS,
P STD, MOD CMT, S/ANG
S RND, M/F/VFG. TR: PYR.

MUD WT. 9.6

MUD WT. 9.6

SD: CLR, WH, GY, GRN, BRN, TAN, CONS,
P STD, MOD CMT, M/FG, GLAU, CALC.

MUD WT. 9.6

SD: CLR, WH, GY, BRN, TAN, CONS, W STD,
MOD CMT, S ANG/S RND, M/FG.
TR: LIG, GLAU, PYR, SL CALC.

MUD WT. 9.6

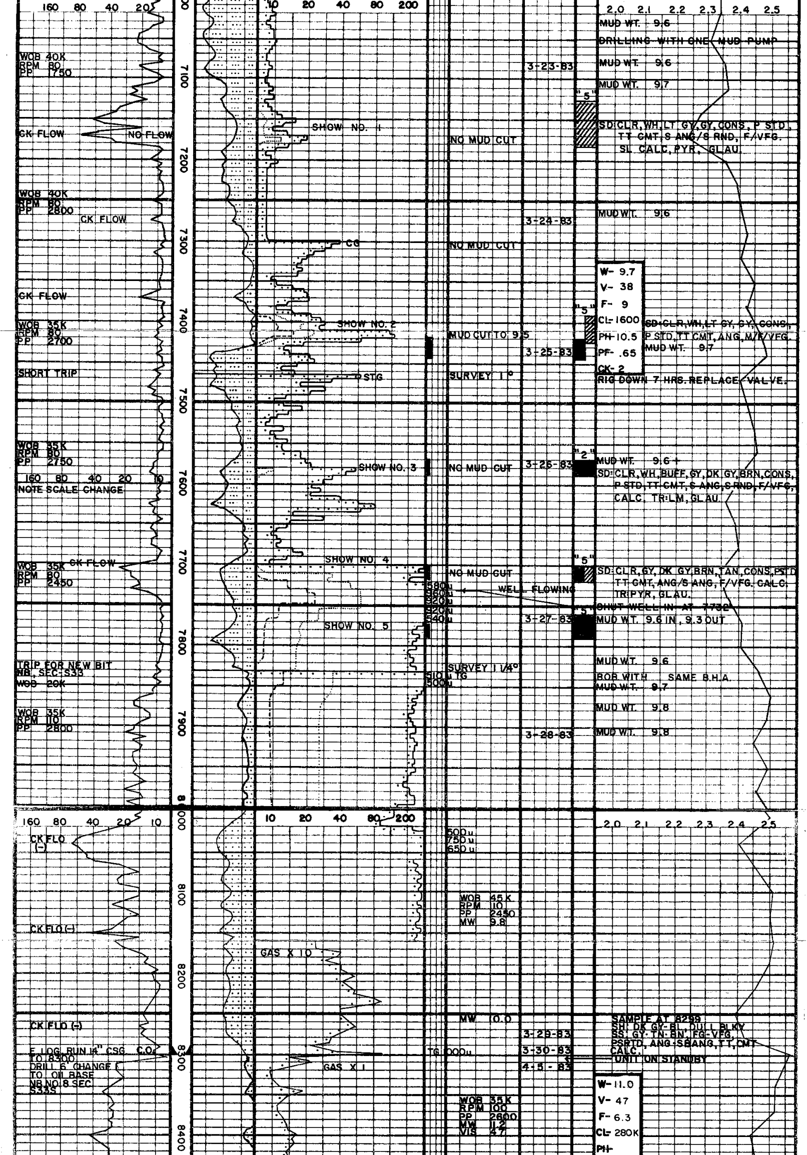
SD: CLR, WH, GY, BRN, TAN, CONS, P STD,
TT CMT, ANG/S RND, M/F/VFG.
TR: GLAU, PYR, SL CALC (SH FRAG)

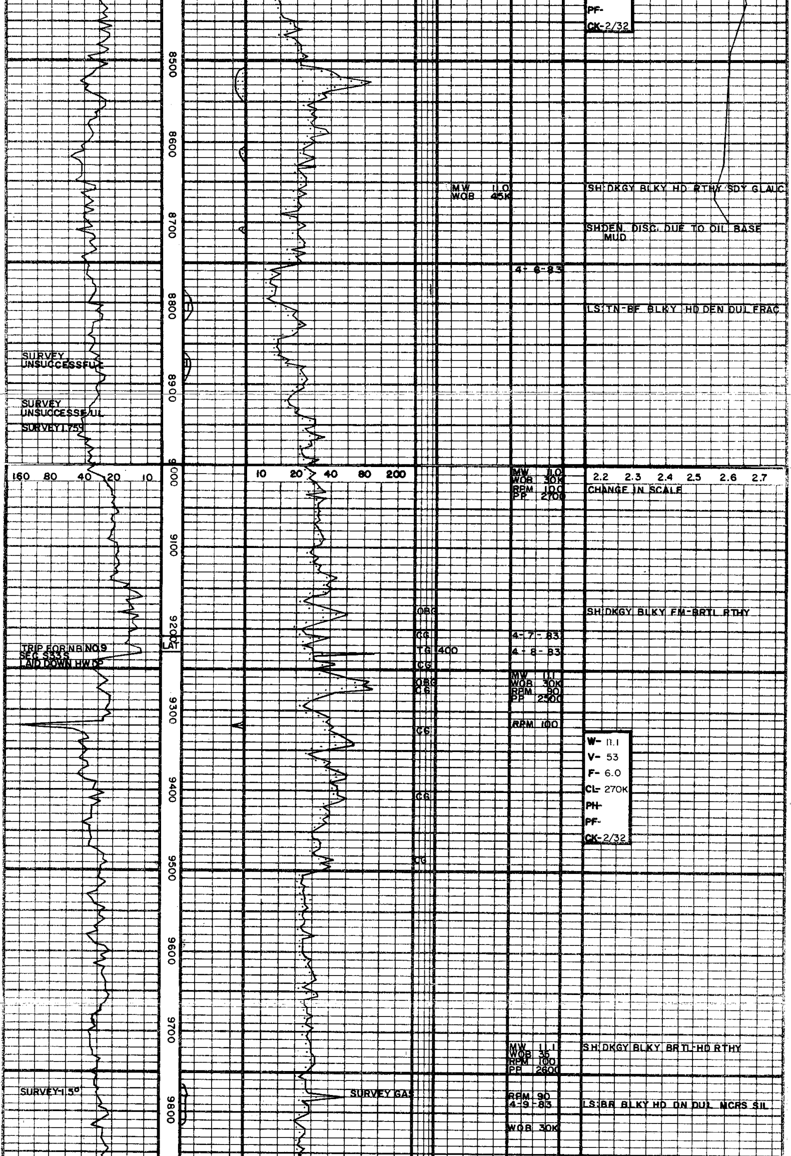
SH: LT GY, GY, BRN, BLKY, BRTL, SPLTY.
TR: LIG, PYR, GLAU.

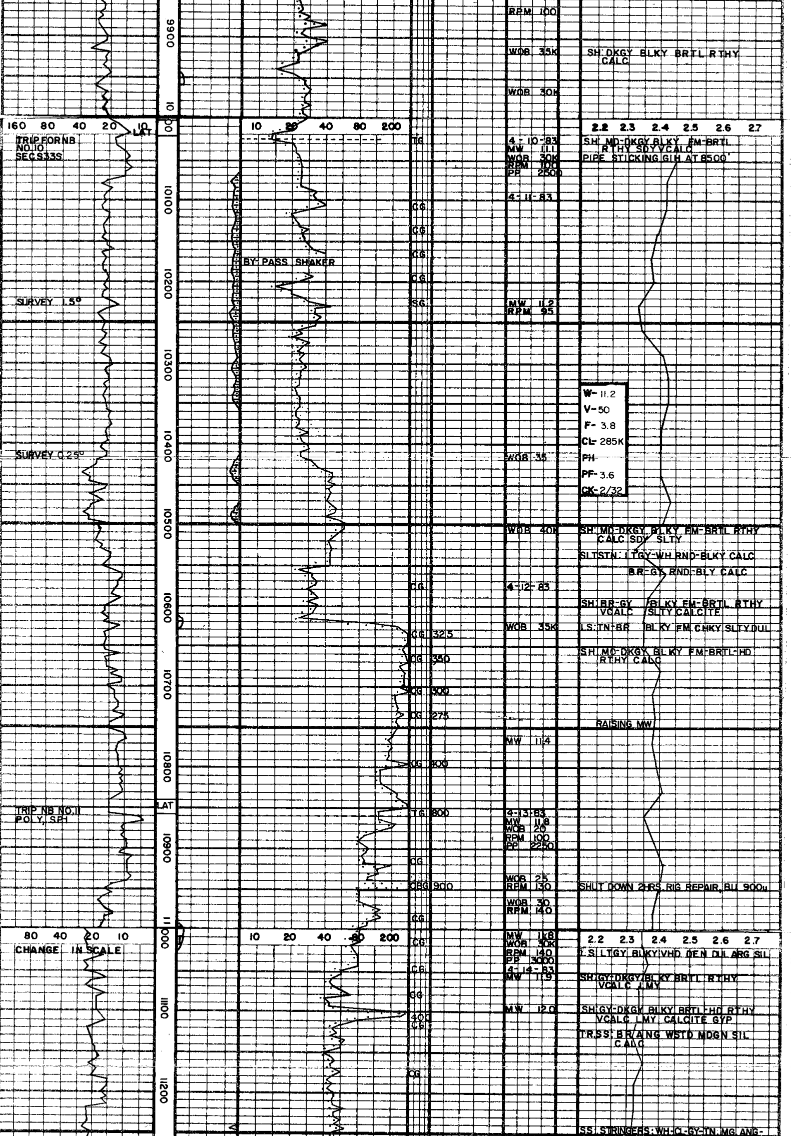
MUD WT. 9.6

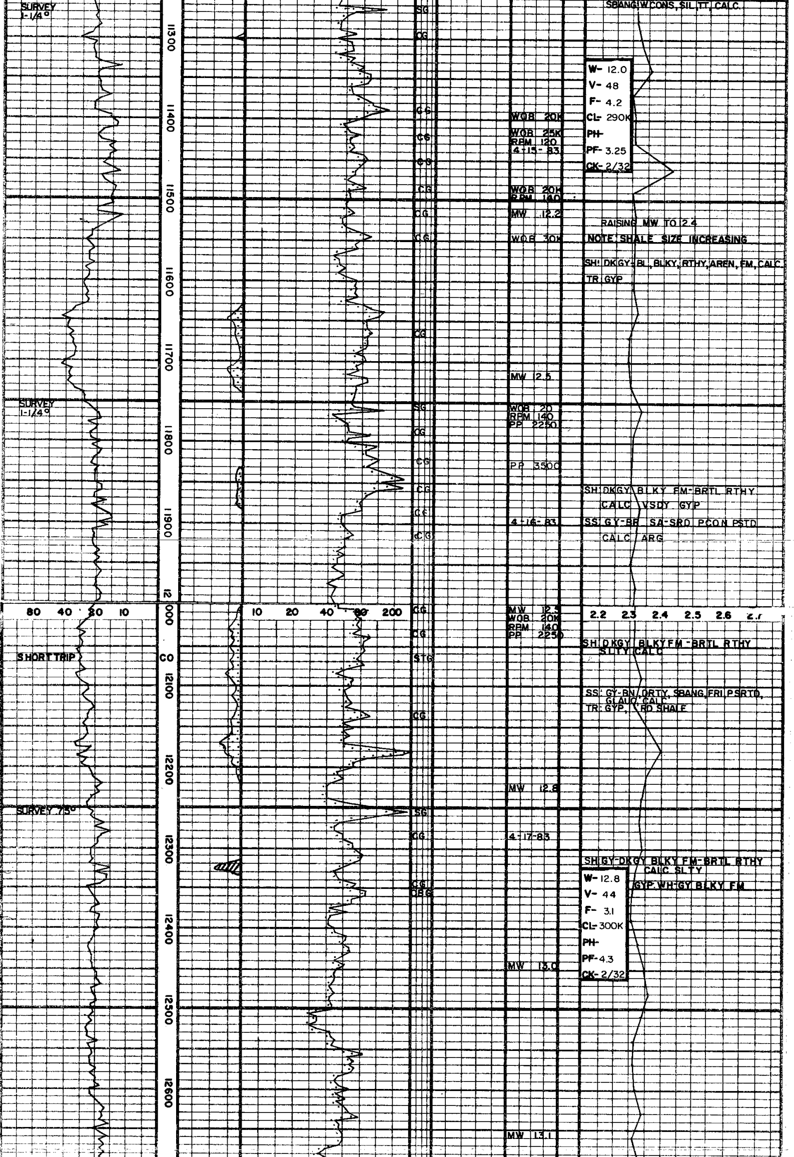
SD: CLR, LT GY, GY, CONS, P STD, TT CMT
ANG/S ANG, F/VFG, PYR, GLAU.

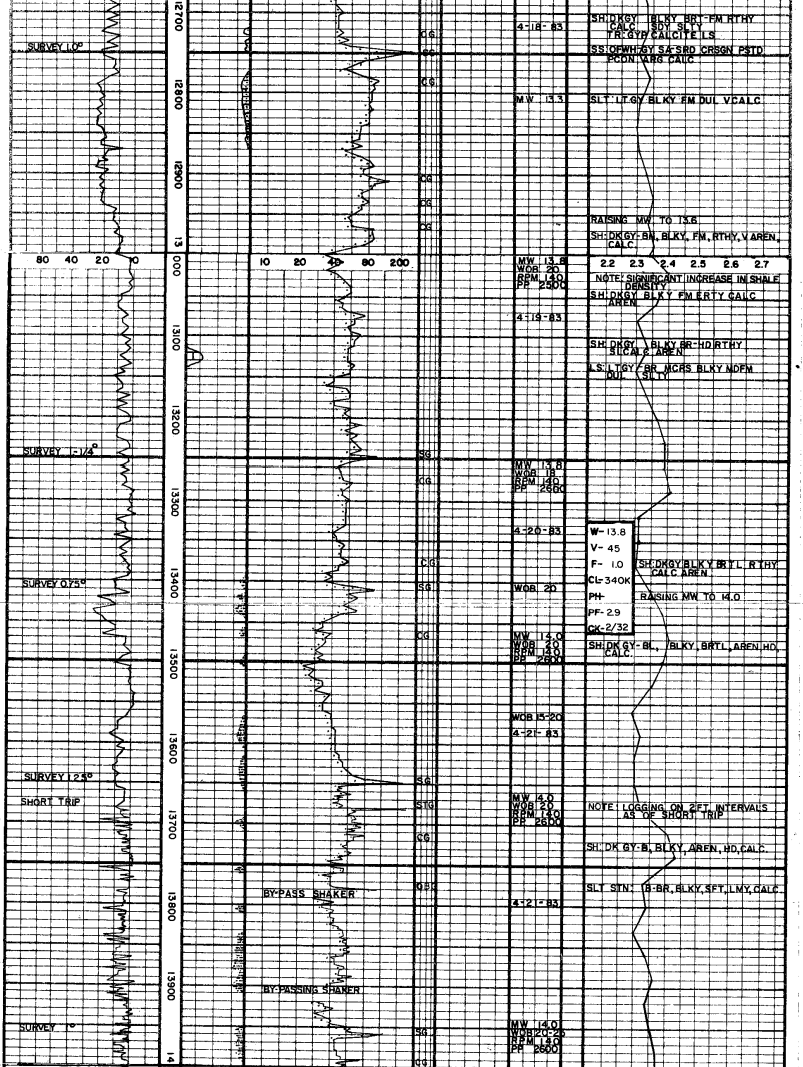
MUD WT. 9.6

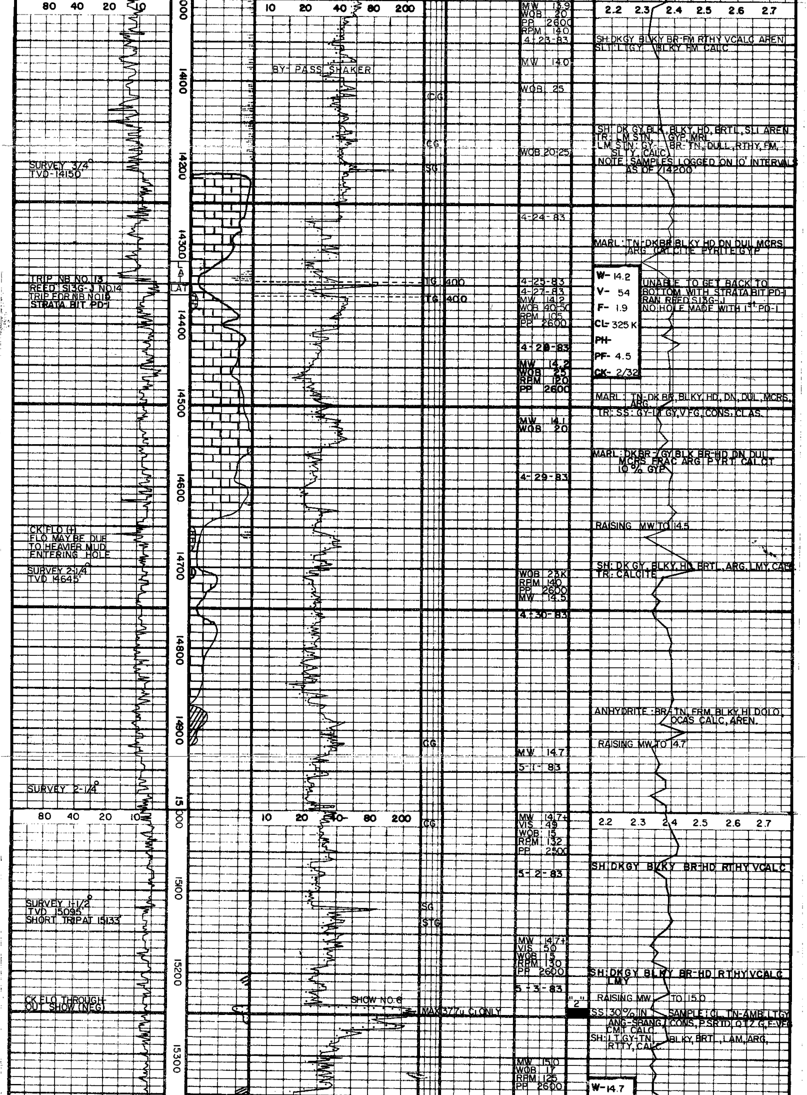












MW 13.9
WOB 20
PP 2600
RPM 140
4-23-83

SH: DKGY BLKY BR-FM RTHY VCALC AREN
SLT: LTGY BLKY FM CALC

BY-PASS SHAKER

MW 14.0

WOB 25

SH: DK GY BLK, BLKY, HD, BRTL, SLI AREN
TR: LM STN, GYP, MRL
LM STN: GY-BR-TN, DULL, RTHY, FM, SLTY, CALC)
NOTE: SAMPLES LOGGED ON 10' INTERVALS AS OF 14200'

WOB 20-25

SURVEY 3/4°
TVD-14150'

4-24-83

MARL: TN-DKBR BLKY HD DN DUL MCRS ARG CALCITE PYRITE GYP

TRIP NB NO.13
REED SI3G-J NO.14
TRIP FOR NB NO.15
STRATA BIT PD-I

4-25-83
4-27-83
MW 14.2
WOB 40-50
RPM 105
PP 2600

W- 14.2
V- 54
F- 1.9
CL- 325 K
PH-
PF- 4.5
CK- 2/32

UNABLE TO GET BACK TO BOTTOM WITH STRATA BIT PD-I
RAN REED SI3G-J
NO HOLE MADE WITH 1st PD-I

4-28-83
MW 14.2
WOB 25
RPM 120
PP 2600

MARL: TN-DK BR, BLKY, HD, DN, DUL, MCRS, ARG.
TR: SS: GY-LT GY, VFG, CONS, CLAS.

MW 14.1
WOB 20

MARL: DKBR-/GY BLK BR-HD DN DUL MCRS FRAC ARG PYRT CALCT 10% GYP

4-29-83

RAISING MW TO 14.5

CK FLO (+)
FLO MAY BE DUE TO HEAVIER MUD ENTERING HOLE

SURVEY 2-1/4°
TVD 14645'

SH: DK GY, BLKY, HD, BRTL, ARG, LMY, CALC.
TR: CALCITE

WOB 23K
RPM 140
PP 2600
MW 14.5

4-30-83

ANHYDRITE: BR-TN, FRM, BLKY, HI DOLO, OCAS CALC, AREN.

RAISING MW TO 14.7

MW 14.7
5-1-83

SURVEY 2-1/4°

MW 14.7+
VIS 49
WOB 15
RPM 132
PP 2500

SH DKGY BLKY BR-HD RTHY VCALC

5-2-83

SURVEY 1-1/2°
TVD 15095'
SHORT TRIP AT 15133'

MW 14.7+
VIS 50
WOB 15
RPM 130
PP 2600

SH: DKGY BLKY BR-HD RTHY VCALC LMY

5-3-83

RAISING MW TO 15.0

CK FLO THROUGH-OUT SHOW (NEG)

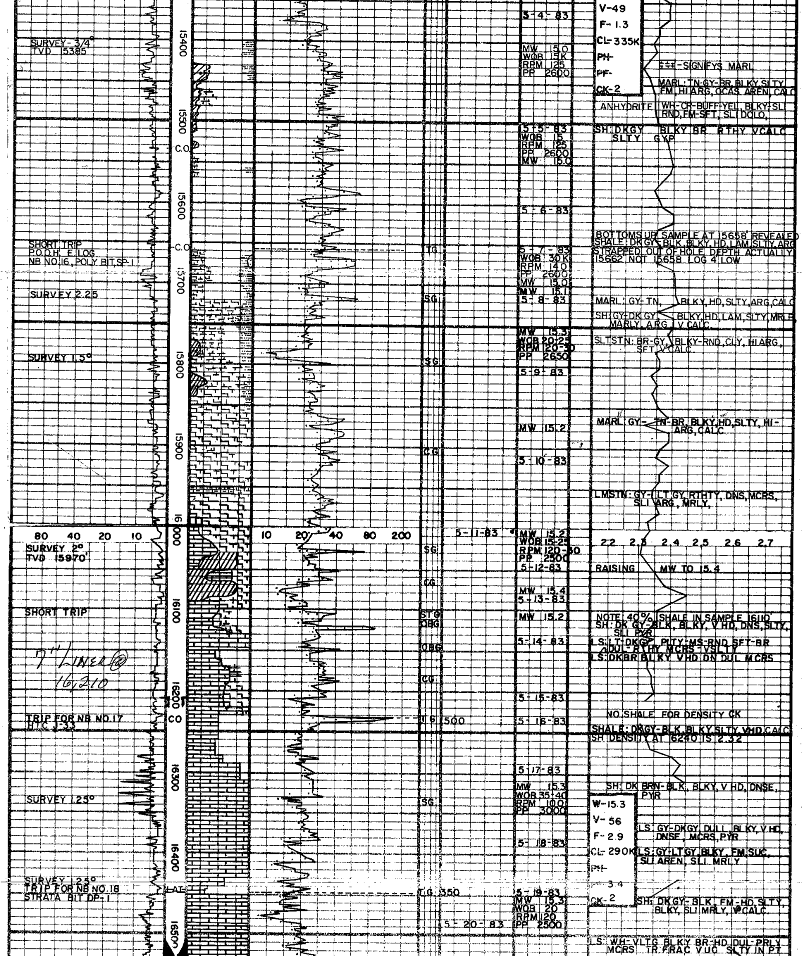
SHOW NO.6

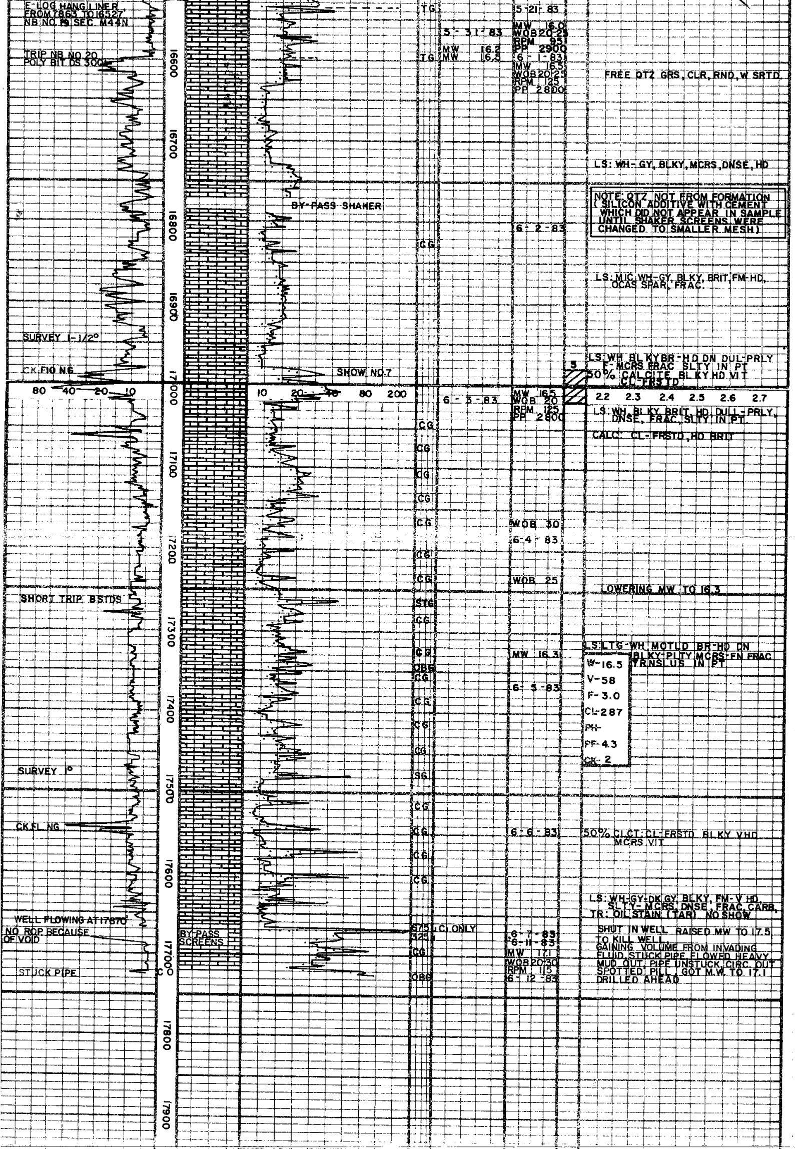
MAX 377u C1 ONLY

SS 30% IN SAMPLE: CL, TN-AMB, LTGY, ANG-SBANG, CONS, P SRTD, QTZ G, F-VFG, CMT CALC
SH: LT GY-TN, BLKY, BRT, LAM, ARG, RTTY, CALC.

MW 15.0
WOB 17
RPM 125
PP 2600

W- 14.7





Data Log Inc.
P. O. DRAWER "P"
LA PLACE, LA. 70068

SHOW REPORT

COMPANY SANTA FE MINERALS WELL NO. 1 NUECES MINERALS
DATE 3-23-83 TYPE SHOW DRY GAS SHOW NO. 1
SHOW INTERVAL - FROM 7125 TO 7185
DRILL RATE - BEFORE 18 FPH DURING 78 FPH AFTER 9 FPH
MUD WEIGHT - BEFORE 9.7 PPG DURING 9.7 PPG AFTER 9.7 PPG

HOT WIRE ANALYSIS

AVERAGE GAS - BEFORE 5u DURING 18u AFTER 5u
MAXIMUM GAS DURING SHOW 18u MUD WEIGHT CUT TO NO MUD CUT

CHROMATOGRAPH ANALYSIS

	BEFORE	DURING	AFTER
C-1	0.1 %	0.37 %	0.12 %
C-2	.0 %	0.2 %	.0 %
C-3	.0 %	.TR %	.0 %
IC-4	.0 %	.0 %	.0 %
NC-4	.0 %	.0 %	.0 %

MAXIMUM DURING SHOW

C-1 0.37 % C-2 0.2 % C-3 .TR % IC-4 .0 % NC-4 .0 %

FLUORESCENCE

NO FLUO.
% COLOR TYPE CUT NO LEACH CUT
CHLORIDES - BEFORE 1600 PPM DURING 1600 PPM AFTER 1600 PPM

SHOW RATING

___ (2) NON PRODUCTIVE
___ (10) POSSIBLY PRODUCTIVE
X (5) PROBABLE NON PRODUCTIVE
___ (15) PROBABLY PRODUCTIVE

LITHOLOGY 40% SAND:CLEAR,WHITE,LT GRAY,GRAY,CONSOLIDATIONS OF POORLY SORTED, TIGHTLY CEMENTED,SUB ANGULAR TO SUB ROUND,FINE TO VERY FINE GRAIN,SLIGHTLY CALCAREOUS.TRACES:PYRITE,GLAUCONITE.
60% SHALE:LT GRAY,GRAY,BROWN,SPLINTERY,BRITTLE,VITREOUS.

REMARKS MICROSCOPIC EXAMINATION OF SAND FROM THIS ZONE INDICATES LITTLE FRACTURED,GRANDULAR,VULGAR, OR CRYSTALLINE POROSITY. PERMEABILITY IS REDUCED GREATLY BY GRAIN SIZE AND TIGHT CEMENTING. HIGH METHANE/ETHANE RATIO WITH A TRACE OF PROPANE RECORDED ON CHROMATOGRAPH INDICATES THIS GAS IS FROM A DRY GAS RESERVOIR. THIS SHOW IS VALUE RATED AS "5" PROBABLY NON PRODUCTIVE.

ENGINEER ROY R. RUSSELL

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data log inc.

SHOW REPORT

COMPANY SANTA FE MINERALS WELL NO. 1 NUECES MINERALS
DATE 3-24/25-83 TYPE SHOW OIL CUT FROM SD./GAS SHOW NO. 2
SHOW INTERVAL - FROM GAS....7390 OIL....7420 TO 7425 7445
DRILL RATE - BEFORE 8 FPH DURING 12 FPH AFTER 8 FPH
MUD WEIGHT - BEFORE 9.7 PPG DURING 9.5 PPG AFTER 9.7 PPG

HOT WIRE ANALYSIS

AVERAGE GAS - BEFORE 14u DURING 130u AFTER 13u

MAXIMUM GAS DURING SHOW 130u MUD WEIGHT CUT TO 9.5 PPG

CHROMATOGRAPH ANALYSIS

	BEFORE	DURING	AFTER
C-1	.37 %	2.61 %	.27 %
C-2	.0 %	.39 %	.0 %
C-3	.0 %	.0 %	.0 %
IC-4	.0 %	.28 %	.0 %
NC-4	.0 %	.0 %	.0 %

MAXIMUM DURING SHOW

C-1 2.61 % C-2 0.39 % C-3 .0 % IC-4 .28 % NC-4 .0%

FLUORESCENCE

30% OF SAMPLE % COLOR DULL YELLOW TYPE CUT FAST FLUSH LEACH CUT GRADED FAIR

CHLORIDES - BEFORE 1600 PPM DURING 1600 PPM AFTER 1600 PPM

SHOW RATING

____ (2) NON PRODUCTIVE

X (5) PROBABLE NON PRODUCTIVE

____ (10) POSSIBLY PRODUCTIVE

____ (15) PROBABLY PRODUCTIVE

LITHOLOGY 60% SAND:CLEAR,WHITE,LT GRAY,GRAY, CONSOLIDATIONS OF POORLY SORTED, VERY TIGHTLY CEMENTED,ANGULAR TO SUB ANGULAR,MEDIUM,FINE,VERY FINE GRAIN. SLIGHTLY CALCAREOUS. TRACE:PYRITE,GLAUCONITE. 40% SHALE:LT GRAY,GRAY,BROWN, SPLINTERY,BRITTLE,VITREOUS. TRACE: PYRITE,GLAUCONITE.

REMARKS TOP 35' OF SHOW ZONE IS GAS WITH HIGH METHANE/ETHANE RATIO WITH A TAIL OF BUTANE. THIS INDICATES GAS RECORDED IS FROM A WET GAS & DISTILIATE RESERVOIR. THE DULL YELLOW LEACH CUT FROM SAND IS CHARACTERISTIC OF 25 TO 35 GRAVITY API CRUDE OIL. VISUAL EVALUATION REVEALS LOW POROSITY & LITTLE PERMEABILITY DUE TO ANGULAR SHAPE OF GRAINS & TIGHT CEMENTING. THIS SHOW VALUE RATED AS "5" PROBABLY NON PRODUCTIVE.

ENGINEER ROY R. RUSSELL

Data Log Inc.

P. O. DRAWER "P"
LA PLACE, LA. 70068

SHOW REPORT

COMPANY SANTA FE MINERALS WELL NO. 1 NUECES MINERALS

DATE 3-26-83 TYPE SHOW OIL CUT FROM SAND SHOW NO. 3

SHOW INTERVAL - FROM 7570' TO 7588'

DRILL RATE - BEFORE 9 FPH DURING 16 FPH AFTER 9 FPH

MUD WEIGHT - BEFORE 9.6+ PPG DURING 9.6+ PPG AFTER 9.6 + PPG

HOT WIRE ANALYSIS

AVERAGE GAS - BEFORE 14u DURING 36u AFTER 22u

MAXIMUM GAS DURING SHOW 57u MUD WEIGHT CUT TO NO MUD CUT

CHROMATOGRAPH ANALYSIS

	BEFORE	DURING	AFTER
C-1	0.27 %	1.18 %	0.43 %
C-2	.0 %	.TR %	.0 %
C-3	.0 %	.0 %	.0 %
IC-4	.0 %	.0 %	.0 %
NC-4	.0 %	.0 %	.0 %

MAXIMUM DURING SHOW

C-1 1.18 % C-2 .TR % C-3 .0 % IC-4 .0 % NC-4 .0 %

FLUORESCENCE

5% OF SAMPLE % COLOR DULL YELLOW TYPE CUT SLOW STREAMING LEACH CUT GRADED FAIR

CHLORIDES - BEFORE 1600 PPM DURING 1800 PPM AFTER 1600 PPM

SHOW RATING

X (2) NON PRODUCTIVE
(5) PROBABLE NON PRODUCTIVE
(10) POSSIBLY PRODUCTIVE
(15) PROBABLY PRODUCTIVE

LITHOLOGY 50 % SAND:CLEAR,BUFF,WHITE,GRAY,DARK GRAY,BROWN,CONSOLIDATIONS OF POORLY SORTED,TIGHTLY CEMENTED,SUB ANGULAR,SUB ROUND,FINE/VERY FINEGRAIN. CALCAREOUS. TRACE:LIME,GLAUCONITE. 50% SHALE:GRAY,DARK GRAY,BLOCKY,BRITTLE, IMBEDDED LIGNITE. TRACE:LIME,GLAUCONITE.

REMARKS CHROMATOGRAPH RECORDED ALL METHANE WITH A TRACE OF ETHANE. THIS USUALLY INDICATES GAS FROM A GAS & WATER RESERVOIR. THE DULL YELLOW FLUORESCENCE FROM SAND IS CHARACTERISTIC OF 25 TO 35 GRAVITY API CRUDE OIL. WHILE THE LEACH CUT WAS GRADED FAIR, LITTLE VISUAL POROSITY WAS DETECTED & PERMEABILITY IS INHIBITED BY GRAIN SHAPE & TIGHT CEMENTING. THIS SHOW IS VALUE RATED AS "2" NON PRODUCTIVE.

ENGINEER ROY R. RUSSELL

Data Log Inc.
P. O. DRAWER "P"
LA PLACE, LA. 70068

SHOW REPORT

COMPANY SANTA FE MINERALS WELL NO. 1 NUECES MINERALS

DATE 3-26-83 TYPE SHOW OIL CUT FROM SAND & GAS SHOW NO. 4

SHOW INTERVAL - FROM 7702' TO 7720'

DRILL RATE - BEFORE 11 FPH DURING 40 FPH AFTER 11 FPH

MUD WEIGHT - BEFORE 9.7 PPG DURING 9.6+ PPG AFTER 9.6+ PPG

HOT WIRE ANALYSIS

AVERAGE GAS - BEFORE 6u DURING 400u AFTER 200u

MAXIMUM GAS DURING SHOW 400u MUD WEIGHT CUT TO 9.6+ PPG

CHROMATOGRAPH ANALYSIS

	BEFORE	DURING	AFTER
C-1	0.11 %	8.02 %	3.98 %
C-2	.0 %	1.53 %	.86 %
C-3	.0 %	.41 %	.TR %
IC-4	.0 %	.0 %	.0 %
NC-4	.0 %	.0 %	.0 %

MAXIMUM DURING SHOW

C-1 8.02 % C-2 1.35 % C-3 .41 % IC-4 .0 % NC-4 .0 %

FLUORESCENCE

25% OF SAMPLE % COLOR DULL YELLOW TYPE CUT STREAMING LEACH CUT GRADED FAIR

CHLORIDES - BEFORE 1500 PPM DURING 1800 PPM AFTER 1500 PPM

SHOW RATING

(2) NON PRODUCTIVE
X (5) PROBABLE NON PRODUCTIVE
(10) POSSIBLY PRODUCTIVE
(15) PROBABLY PRODUCTIVE

LITHOLOGY 50% SAND:CLEAR,GRAY,BROWN,TAN,V COLORED,CONSOLIDATIONS OF POORLY SORT-
D,TIGHTLY CEMENTED,ANGULAR,SUB ANGULAR,FINE TO VERY FINE GRAIN.CALCAREOUS.
R:PYRITE,GLAUCONITE. 50% SHALE:GRAY,DARK GRAY,BROWN,BLOCKY,BRITTLE,
TRACE:PYRITE,GLAUCONITE.

REMARKS HEAVY GASES RECORDED BY CHROMATOGRAPH WERE HIGH METHANE,LOW ETHANE AND
A TRACE OF PROPANE. GAS CONTINUES TO BLEED IN AFTER SHOW ZONE. THE DULL YELLOW
FLUORESCENCE FROM SAND IN SHOW ZONE IS CHARACTERISTIC OF 25 TO 35 GRAVITY API
RUDE OIL. VISUAL EVALUATION REVEALS MINIMAL POROSITY WITH PERMEABILITY INHIB-
TED BY GRAIN SHAPE & TIGHT CEMENTING. THIS SHOW IS VALUE RATED AS "5" PROBABLY
ON PRODUCTIVE.

ENGINEER ROY R. RUSSELL

SHOW REPORT

Data Log Inc.
P. O. DRAWER "P"
LA PLACE, LA. 70068

COMPANY SANTA FE MINERALS WELL NO. 1 NUECES MINERALS
DATE 3-27-83 TYPE SHOW OIL CUT FROM SAND SHOW NO. 5
SHOW INTERVAL - FROM 7760' TO 7790'
DRILL RATE - BEFORE 7 FPH DURING 9 FPH AFTER 6 FPH
MUD WEIGHT - BEFORE 9.7 PPG DURING 9.5 PPG AFTER 9.5+ PPG

HOT WIRE ANALYSIS

AVERAGE GAS - BEFORE 300u DURING 500u AFTER 250u
MAXIMUM GAS DURING SHOW 540u MUD WEIGHT CUT TO 9.5 PPG

CHROMATOGRAPH ANALYSIS

	BEFORE	DURING	AFTER
C-1	5.97 %	10.02 %	5.07 %
C-2	.0 %	1.99 %	.18 %
C-3	.0 %	.85 %	.TR %
IC-4	.0 %	.0 %	.0 %
NC-4	.0 %	.0 %	.0 %

MAXIMUM DURING SHOW

-1 10.02 % C-2 1.99 % C-3 .85 % IC-4 .0 % NC-4 .0 %

FLUORESCENCE

20% OF SAMPLE % COLOR DULL YELLOW/LT ORANGE TYPE CUT SLOW STREAMING LEACH CUT GRADED FAIR
HLORIDES - BEFORE 1500 PPM DURING 1700 PPM AFTER 1500 PPM

SHOW RATING

___ (2) NON PRODUCTIVE
X (5) PROBABLE NON PRODUCTIVE
___ (10) POSSIBLY PRODUCTIVE
___ (15) PROBABLY PRODUCTIVE

THOLOGY 70% SAND:GRAY,BROWN,TAN,V COLORED,CONSOLIDATIONS OF POORLY SORTED,
IGHTLY CEMENTED,ANGULAR/SUB ANGULAR,FINE TO VERY FINE GRAIN. CALCAREOUS.
RACE:PYRITE,GLAUCONITE.
0% SHALE:GRAY,DARK GRAY,BROWN,BLOCKY,BRITTLE. TRACE:PYRITE,GLAUCONITE.

EMARKS CHROMATOGRAPHIC ANALYSIS SUBSTANTIATES HIGH GAS ACCOMPANING SHOW ZONE
S BLEED-IN GAS FROM SHOW NO. 4. THE DULL YELLOW TO LIGHT ORANGE FLUORESCENCE
ROM SAND IN SHOW ZONE IS CHARACTERISTIC OF 15 TO 35 GRAVITY API CRUDE OIL.
SUAL EXAMINATION OF SAND REVEALS MINIMAL POROSITY WITH PERMEABILITY INHIBIT-
D BY GRAIN SHAPE & TIGHT CEMENTING. THIS SHOW IS VALUE RATED AS "5" PROBABLY
ON PRODUCTIVE.

ENGINEER ROY R. RUSSELL

SHOW REPORT

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OMPANY SANTA FE MINERALS WELL NO. 1 NUECES MINERALS
ATE 5-3-83 TYPE SHOW OIL CUT FROM SANDSTONE & RATTY SHALE SHOW NO. 6
HOW INTERVAL - FROM 15240 TO 15250
RILL RATE - BEFORE 7 FPH DURING 7 FPH AFTER 6 FPH
UD WEIGHT - BEFORE 14.7 PPG DURING 14.7 PPG AFTER 14.7 PPG

HOT WIRE ANALYSIS

VERAGE GAS - BEFORE 22u DURING 260u AFTER 80u
AXIMUM GAS DURING SHOW 377u MUD WEIGHT CUT TO NO MUD CUT

CHROMATOGRAPH ANALYSIS

	BEFORE	DURING	AFTER
C-1	.41 %	5.53 %	1.62 %
C-2	.0 %	.TR %	.0 %
C-3	.0 %	.0 %	.0 %
IC-4	.0 %	.0 %	.0 %
NC-4	.0 %	.0 %	.0 %

MAXIMUM DURING SHOW

5.53 % C-2 .TR % C-3 .0 % IC-4 .0 % NC-4 .0 %

FLUORESCENCE

MPLE DID NOT FLUO. % COLOR BLUE WHITE/VIOLET TYPE CUT GRADED GOOD SLOW FLUSH LEACH CUT
LORIDES - BEFORE 280,000 PPM DURING 280,000 PPM AFTER 280,000 PPM

SHOW RATING

X (2) NON PRODUCTIVE
___ (5) PROBABLE NON PRODUCTIVE
___ (10) POSSIBLY PRODUCTIVE
___ (15) PROBABLY PRODUCTIVE

HOLOGY 30% SANDSTONE: CLEAR,TAN,AMBER,LT GRAY,CONSOLIDATIONS OF POORLY SORTED, OSLY CEMENTED,ANGULAR TO SUBANGULAR,FINE TO VERY FINE PREDOMINATLY QUARTZ AINS. CEMENTING MATERIAL SLIGHTLY CALCAREOUS. 70% SHALE: LT GRAY,GRAY,TAN, ITTLE,LAMINATED WITH RATTY CLAYSTONE,CALCAREOUS.

MARKS FIRST INDICATION OF SHOW ZONE WAS INCREASE IN GAS FROM 22u TO 200u. RMATION CHANGED FROM 100% SHALE TO STATED LITHOLOGY. GAS WAS METHANE ONLY, NO AVY GASES THRU ZONE. SLOW OIL LEACH CUT WAS FROM SANDSTONE LACED WITH RATTY ALE ON THIRD TRY,VISUAL EVALUATION INDICATES SOME POROSITY BUT NO PERMEABILITY. IS SHOW IS VALUE RATED AS "2" NON PRODUCTIVE.

ENGINEER ROY R. RUSSELL

SHOW REPORT

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MPANY SANTA FE MINERALS WELL NUECES MINERALS NO. 1
TE JUNE 3, 1983 TYPE SHOW GAS SHOW NO. 8
OW INTERVAL - FROM 16982 TO 17018
LL RATE - BEFORE 13 DURING 24 AFTER 10
D WEIGHT - BEFORE 16.5 DURING 16.5 AFTER 16.5

HOT WIRE ANALYSIS

ERAGE GAS - BEFORE 8 DURING 30 AFTER 10
XIMUM GAS DURING SHOW 42 MUD WEIGHT CUT TO no cut

CHROMATOGRAPH ANALYSIS

	BEFORE	DURING	AFTER
C-1	TR %	.8 %	TR %
C-2	%	%	%
C-3	%	%	%
IC-4	%	%	%
NC-4	%	%	%

MAXIMUM DURING SHOW

1.0% C-2 ______ C-3 ______ IC-4 ______ NC-4 ______

FLUORESCENCE

ONE % COLOR ______ TYPE CUT ______

ORIDES - BEFORE 300K DURING 300K AFTER 300K

SHOW RATING

______ (2) NON PRODUCTIVE

X (5) PROBABLE NON PRODUCTIVE

______ (10) POSSIBLY PRODUCTIVE

______ (15) PROBABLY PRODUCTIVE

IOLOGY 50% LS: WH, BLKY, BRIT-HD, DULL-PRLY, DNSE-, F-MCRS, FRAC, SLTY IN PT.
50% CALCITE: CL-FRSTD, BLKY, HD, VIT.

ARKS DRILLING OVERBALANCED MAY HAVE DISGUISED SHOW.

ENGINEER BRIAN P. WALSH.