P-W

ARKLA EXPLORATION NMA CORE TEST No. 37
SE/NE Sec 25-T16N-R22E, Navajo Co. 9-12

8

County NAVAJO

Area

Lease No.

Well Name ARKLA EXPLORATION CO. NMA CORE TEST #37, W. S. #1

Location SE NE Sec 25 Twp 16N Range 22E Footage 2010 FNL - 866 FEL

Elev 5279 Gr 5286 KB Spud Date 6-5-65 Completed Abandon 6-14-65 Total Depth 1075

Contractor Sojourner

Drilled by Rotary
Cable Tool

Casing Size	Depth	Cement

Production Horizon

Initial Production

REMARKS

Elec Logs GRN-6, Survey Report

Applic. to Plug ___ Plugging Record ___ Completion Report ___

Sample Log
Sample Descript.
Sample Set
Core Analysis
DSTs

Water well accepted by

Bond Co. & No.

Bond Am't $ Cancelled Date Organization Report

Filing Receipt Dated Well Book ___ Plat Book ___

API No. 02-017-05155 Loc. Plat ___ Dedication

Permit Number NONE Date Issued

9-12

WELL COMPLETION OR RECOMPLETION REPORT AND WELL LOG

DESIGNATE TYPE OF COMPLETION:

New Well [X] Work-Over [ ] Deepen [ ] Plug Back [ ] Same Reservoir [ ] Different Reservoir [ ] Oil [ ] Gas [ ] Dry [X] STRAT

DESCRIPTION OF WELL AND LEASE

Operator: ARKLA EXPLORATION CO	Address: P O BOX 1439, OKLAHOMA CITY OK 73101
Federal, State or Indian Lease Number or name of lessor if free lease: NEW MEXICO-ARIZONA LAND CO	Well Number: 37 / Field & Reservoir: STRAT TEST
Location: 2010' FNL & 866' FEL	County: NAVAJO
Sec. TWP-Range or Block & Survey: SE NE 25-16N-22E	

Date spudded	Date total depth reached	Date completed, ready to produce	Elevation (DF, RKB, RT or Gr.)	Elevation of casing hd. flange
6-5-65	6-14-65	N/A	5279 Gr feet	5286 KB feet

Total depth	P.B.T.D.	Single, dual or triple completion?	If this is a dual or triple completion, furnish separate report for each completion.
1075'	--	--	--

Producing interval (s) for this completion	Rotary tools used (interval)	Cable tools used (interval)
N/A	ALL	NONE

Was this well directionally drilled?	Was directional survey made?	Was copy of directional survey filed?	Date filed
YES-TWO SIDETRACKS	YES	YES	-- 6/65

Type of electrical or other logs run (check logs filed with the commission)	Date filed
GAMMA-RAY NEUTRON / DIRECTIONAL SURVEY	6/65

CASING RECORD

Casing (report all strings set in well — conductor, surface, intermediate, producing, etc.)

Purpose	Size hole drilled	Size casing set	Weight (lb./ft.)	Depth set	Sacks cement	Amt. pulled
SURFACE	13 1/4"	10 1/4"	32.75#	52'	35	NONE
INTERMEDIAT	8 1/4"	7"	20#	695'	125	NONE

TUBING RECORD			LINER RECORD				
Size	Depth set	Packer set at	Size	Top	Bottom	Sacks cement	Screen (ft)
-- in.	n/a ft.	n/a ft.	n/a in.	n/a ft.	n/a ft.	n/a	n/a

PERFORATION RECORD			ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD	
Number per ft.	Size & type	Depth Interval	Am't. & kind of material used	Depth Interval
NONE			NONE	

INITIAL PRODUCTION

Date of first production	Producing method (indicate if flowing, gas lift or pumping—if pumping, show size & type of pump:)
NONE	

Date of test	Hrs. tested	Choke size	Oil prod. during test	Gas prod. during test	Water prod. during test	Oil gravity
			bbls.	MCF	bbls.	°API (Corr)

Tubing pressure	Casing pressure	Cal'ted rate of Production per 24 hrs.	Oil	Gas	Water	Gas—oil ratio
			bbls.	MCF	bbls.	

Disposition of gas (state whether vented, used for fuel or sold):

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the COMPANY REP of the ARKLA (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

Date

JAMES S. BALDRY
Signature

STRAIGHT HOLE DRILLED AND CORED TO 1075'
SIDE TRACTED HOLE #1 @ 705' - DRILLED AND CORED TO 819'.
SIDE TRACTED HOLE #2 @ 725' - DRILLED AND CORED TO 810'.

**SOJOURNER DRILLING COMPANY

Permit No. 9-12

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Well Completion or Recompletion Report and Well Log
File One Copy
Form No. 4

ARKLA #37 NMA

DETAIL OF FORMATIONS PENETRATED

FORMATION	TOP	BOTTOM	DESCRIPTION*
TRIASSIC			
MOENKOPI	SURF	187'	
PERMIAN			
COCONINO SS	187'	500'	WHITE SD RED/ORANGE SD
PERMIAN			
SUPAI FM	500'	1075' (TD)	TOP ANHYDRITE 675' TOP SALT 765' STRAIGHT HOLE CORE #1 770-821' (SEE DESC) BLEW OUT @821 SIDETRAC #1 CORE #1 770-796' CORE #2 796-818' BLEW OUT @816 DRILLED 2' AND BLEW OUT AGAIN DST #1 779-819' SIDETRAC #2 CORE #1 784-810' **SEE DESCRIPTION FOR DETAILS**

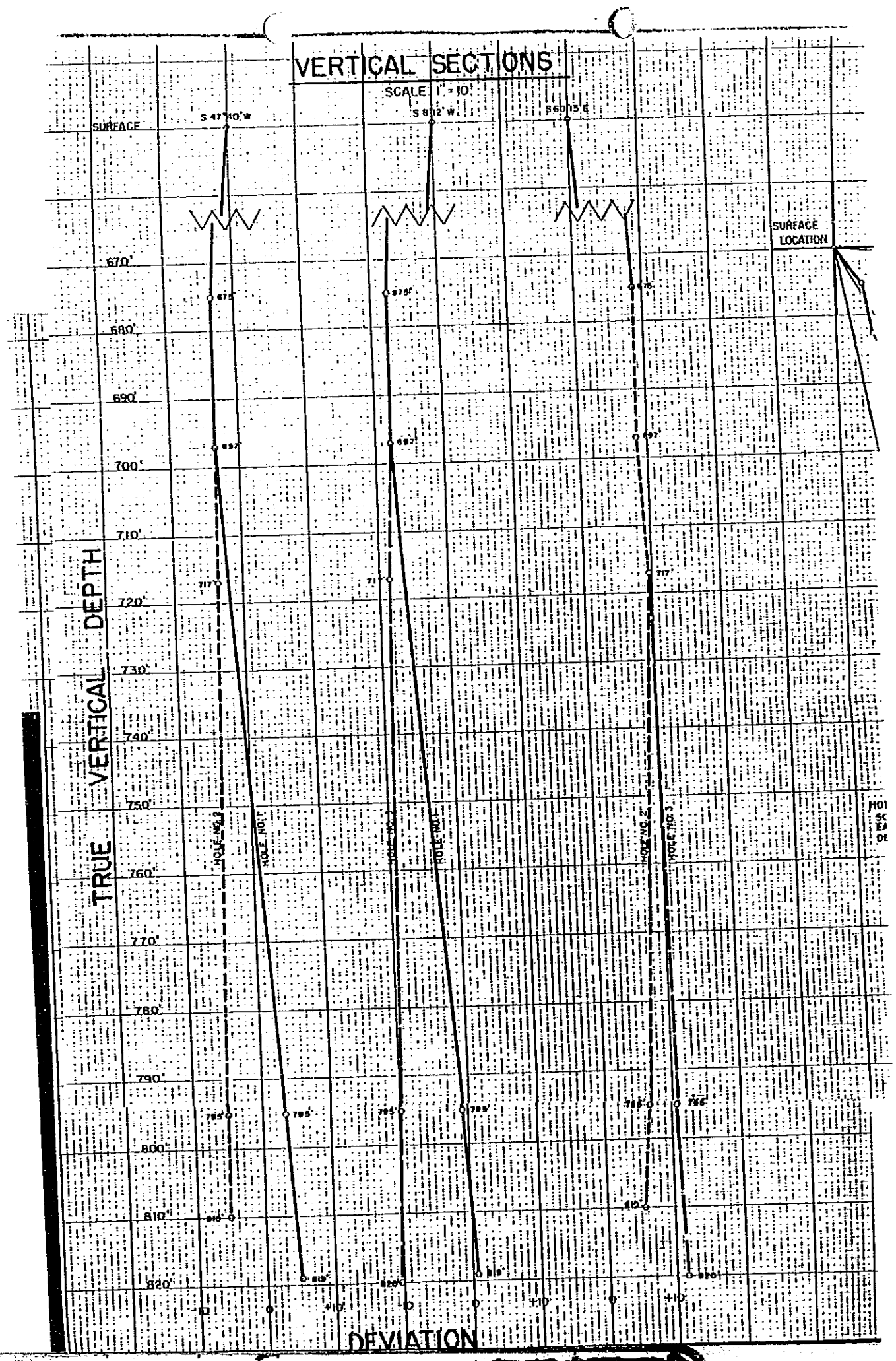
* Show all important zones of porosity, detail of all cores, and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries.

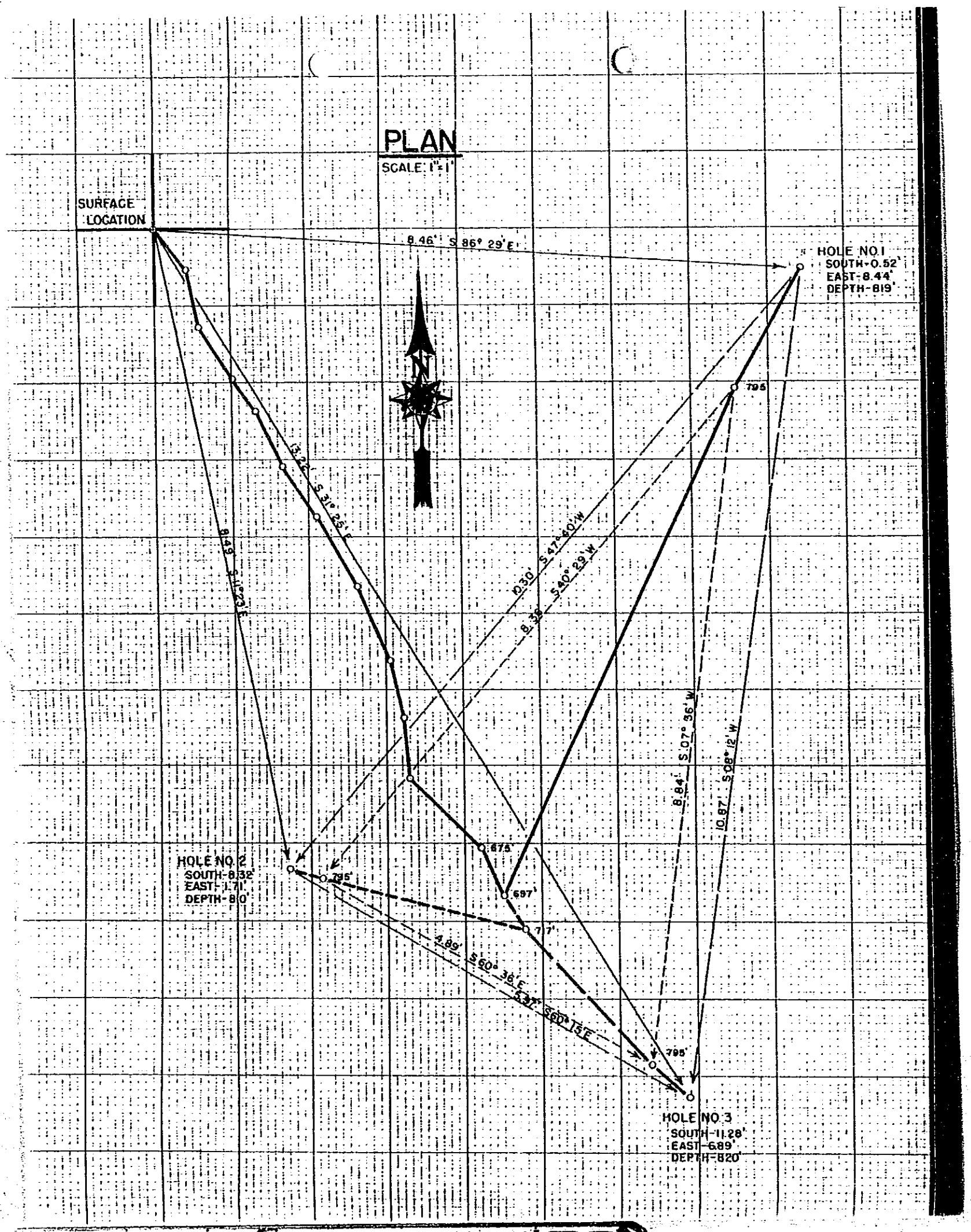
INSTRUCTIONS:

Attach drillers log or other acceptable log of well.

This Well Completion or Recompletion re[illegible] and well log shall be filed with the State of Arizona [illegible] Gas Conservation Commission not later than thirty days after project completion.

Form No. 4


VERTICAL SECTIONS
SCALE 1" = 10'
SURFACE
S 47°40' W
S 8°12' W
S 60°15' E
SURFACE LOCATION
670'
680'
690'
700'
710'
720'
730'
740'
750'
760'
770'
780'
790'
800'
810'
820'
TRUE VERTICAL DEPTH
HOLE NO. 3
HOLE NO. 1
HOLE NO. 2
HOLE NO. 1
HOLE NO. 2
HOLE NO. 3
+10'
DEVIATION


PLAN
SCALE: 1"=1'
SURFACE LOCATION
8.46' S 86° 29' E
HOLE NO 1
SOUTH-0.52'
EAST-8.44'
DEPTH-819'
795
5.24' S 31° 25' E
8.49' S 42° 23' E
10.30' S 47° 40' W
8.32' S 40° 29' W
8.84' S 07° 36' W
10.87' S 08° 12' W
675'
697'
HOLE NO 2
SOUTH-8.32'
EAST-1.71'
DEPTH-810'
795'
717'
4.89' S 60° 36' E
5.31' S 60° 15' E
795'
HOLE NO 3
SOUTH-11.28'
EAST-6.89'
DEPTH-820'

WELL NAME: AEC - NMA#37

LOCATION:

ELEVATION:

SPUD - JUNE 5, 1965 10¾" SET @ 55' W/35 SX

DO NOT REMOVE FROM FILE

0-10'	SURFACE SAND.
10-20'	SAME.
20-30'	SAME.
30-40'	SAME.
40-50'	SLT ST RED - 50% - CONG SH-SURFACE SAND.
50-60'	SH-RED GREEN, 30% GYP.
60-70'	SAME - INC IN RED SH - INC IN GYP.
70-80'	SAME, TRC GYP.
80-90'	AA, INC IN GREEN-GEC SILTY, TRC GYP.
90-00'	AA, BEC RED, TRC GYP.
100-10'	SH-RED-SH GREEN GYPY-STREAKS WITH SELNITE.
10-20'	SAME-RED SH-BEC GYPY.
20-30'	SH-RED 90%-BEC SLTY-SH GREEN 10%-GYP.
30-40'	AA, DOLO TAN FXYLN SUCROSE 20%.
40-50'	SLT ST-SH-REDDISH BRN, AA 10%.
50-55'	AA 80%, (SD-GREENISH WH W/FLECKS OF GILSONITE GYPSIFEROUS.
55-60'	SD-RED-DN GRN MICA FLECKED RED SD.
60-65'	AA, AA INTSTL CLY, (20% BRN SLTY SH) TRC GYP.
65-70'	AA, 70%, 30% AA, TRC DOLO.
70-75'	PCS WH BBNAA.
75-80'	SLT ST BRN 70% DOL-WH-VF XYLN 30%, PCS PK SD-PCS WH COCO SD.
80-85'	1--% GRY WH-VF XYLN DOL.
85-90'	SD WH-RD-SUB RD-CLEAR-PYRITIC F-MG, GYPY.
90-95'	AA, MED-COARSE GRAIN.
CIRC	AA.
95-00'	AA, BEC MORE COARSE XYLN PYRITIC, 10% GYP.

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CIRC	AA.
200-10'	SD-WH-WELL CONSOL-F MG RD-SUB RD.
10-20'	AA MG PYRITIC.
20-30'	SAME-MORE PYRITIC.
30-40'	BEC MORE COARSE GRAINED.
40-50'	AA.
50-60'	SD WH RO-SUB RD-CG CLEAR-FROSTED UNCONSOLIDATED BEC BEUTENTIC.
60-70'	AA, AA.
70-80'	AA, AA.
80-90'	AA, AA.
90-00'	AA, BEC MORE CONSOLIDATED, BEC BEUT.
300-10'	SD-VCG WH PYRITIC UNCONSOLIDATED.
10-20'	AA.
20-30'	AA LARGE GRAIN BENTENITIC.
30-40'	AA.
40-50'	AS ABOVE.
50-60'	AA.
60-70'	AA BEC MORE CONSOL, TRC RED SLT ST.
70-80'	SD-WH-RD-SUB RD-CG UNCONSOLIDATED-CLEAR PYRITIC.
80-90'	SAME.
90-00'	AA, BENTONITIC.
400-10'	AA.
10-20'	AA.
20-30'	AA SLIGHTLY PK, VERY BENTONITIC.
30-40'	AA BEC MORE CONSOLIDATED AA.
40-50'	AA MORE COARSE.
50-60'	SD WH-CG CONSOLIDATED SILICIOUS CEMENT.
60-70'	SAME BENTONITIC-TRC REDDISH BRN SH.
70-80'	AA AA 10%.
80-90'	AA BEC PINK.

90-00'	SD-LIGHT ORANGE-MED-CG RD-SUB RD, ARG IN PT.
500-10'	SD AS ABOVE, SH-SLTY-RED 30%.
10-20'	SD-WH-LIGHT PK CG-WELL CEMENTED (SIL) ARG IN PT.
20-30'	AA, AA LIGHT ORG CG CONSOLIDATED.
30-40'	AA BEC MORE ORANGE CONSOL ARG.
40-45'	AA, ORG CG ARG IN PT-INTSTL CLY POROUS.
45-50'	AA.
50-55'	AA ARG-INTER GRAIN POR-(10% WH SD CG-POROUS).
55-60'	AA ORG ARG & ORG SD-CG.
CIRC	SAME.
60-70'	SD-DBK ORG-ARG CG CONSOL.
70-80'	SD-PK-ORG LESS ARG.
80-90'	SAME-PCS RED SLT ST.
90-00'	SD-ORG-WH CG GRAINS & CLUSTERS.
600-10'	AA AA AA TRC GYP, (ORG SD ARG)PCS SDY RED SLT ST.
10-20'	SD BEC MORE WH 40% SDY SLT ST-RED.
20-30'	80% SDY SLT ST-RED, PCS WH GRY DOLO SD.
30-40'	AA, AA, SD WH SILICIOUS.
40-45'	60% ORG & WH SD ARG F MG (AA 40%) TRC TAN LS.
45-50'	SD WH SIL 10%-RED SLTY SD & SDY SLT, PCS SLTY BUFF DOLO.
50-55'	SAME AA, PCS WH GYP.
55-60'	AA AA, BEC MORE SHY, SLT INC IN DOLO, PCS WH GYP.
60-65'	SDY SLTY SH-RED PCS VFG SLTY GREEN SD 10%, PCS WH GYP, SLT INC IN DOLO.
65-70'	AA, INC IN GYP TRC ANHY.
70-75'	GRY WH ANHY 90%, SH 10%.
75-80'	ANHY 90%-10% SLT ST RED.
80-85'	ANHY 60%-40% RED SLT ST.
85-90'	SLT ST RD, PCS GREEN TRC ANHY.
90-95'	AA.
95-00'	SH RED, W/GREEN FLECKS.

700-05'	SH RED, W/GREEN FLECKS, (10% ANHY).
05-10'	AA 70%, 30% ANHY.
10-15'	AA 40%, 60% AA.
15-20'	AA 70%, 30% AA.
20-25'	ANHY 100%.
25-30'	AA.
30-35'	AA.
35-40'	SH-RED-SLTY 100%.
40-45'	SH-RED & GREEN 70%, 30% ANHY.
45-50'	AA 80%, 20% AA.
50-55'	80% ANHY WH-LT TAN.
55-60'	100% ANHY WH-LT TAN.
60-65'	70% AA.
65-70'	SALT.

WS#1 CORE #1, REC 26'3" 770-796

770-71 PURE WH SALT; 70-72 PKISH WH SALT W/10% REDDISH SH IMP. 72-76 80% SH RED W/20% SALT INCL AND SALT FILLED HAIRLINE FRAC; 76-77 SALT 80% W/20% SH RED & GREEN IMP; 77-79 SALT 70%-30% RED SH IMP; 79-82½ SALT WH 90%-10% IMP; 82½-84½ SALT 80%-20%RED & GREEN SH IMP; 84½-88 SALT WH W ORG AND PK CAST STRINGER OF SH IMP; 88-90 SALT VF XYLN MILKY WH W/THING STINGER ANHY; 90-92 SALT WH W/ORG BLEBS THIN STRINGERS GRN ANHY; 92-96 POTASH ZONE.

WS #1 CORE #2, REC 23' 796-818

796-99 SAME; 99-99.3 BISQUIT; 99.3-04 SHALE 90%-RED-SALT 10% WH; 04-08 SCATTERED PITS, SALT 80%, SH RED 20%; 08-18 SALT WHITE W/ORNG CAST-ANHY STRINGER @ 81?½ BISQUIT @ 818; 18-19'9½" SHALE 80% RED SLTY SALT WHITE INCLUSIONS 20%.

BLEW OUT @ 816- DRILLED 2' AND BLEW OUT AGAIN SHEET DOWN TO MIX MUD & COME OUT OF HOLE.

DST #1 779-819 SHUT IN 30 MIN INITIAL 1 HOUR FINAL.
TOOL OPEN 1 HOUR-QTS 1½ MIN TSTM-
SPIT DEISEL 6 MIN. REC 270' FLUID-DEISEL & MUD

IFP 175#	ISIP 240#	IHP 400#
FFP 175#	FSIP 175#	FHP 400#

WS #2 CORE #1 CORE AS A WHOLE IS LEACHED & DIRTY 784-810 REC 26'

784-89 WH SALT W/PINKISH CAST SCATTERED ORG BLEBS; 89-90 BEE SHY; 90-93 POTASH ZONE; 93-96.3 SAME, MILKY WH SALT ORNG CAST SCATTERED ORG BLEBS; 96.3 BISQUIT; 96.3-802 SHALE RED 90% (10% SALT INCL);

802-806 SALT 80%-SHALE RED 20%; 06-10 SALT W/ORANGE CAST.

STRAIGHT HOLE CORE #1 REC 50' 770-821

770-72 SALT WH DNS; 72-76 SALT 20%, SH RED 80%; 76-79 SALT 40%, SH RED 60% (SALT CRUMBLY); SALT 90% (10% RED SH IMPURTIES); 83-84 SALT 40%, 60% SH RED; 84-86 SALT WH W/PINKISH CAST, 5% IMPURITIES; 86-91 SALT WH-ORANGE CAST CLY STREAKS GRY SCATTERED ORG BLEBS; 91-95 POTASH ZONE-SHY-CORNALITE SYLVITE-POLYHALITE;-95-96 ORANGE SALT; 96-98 SALT MIKLY WH W/SCATTERED ORT BLEBS 798-BISQUIT GRY CLY STRINGER POLYHALITE; 98-03 SHALE 80-90% SALT WH 10-20% CRUMBLEY SALT; 03-07 SALT 90% XYLN WH SH RED IMP; 07-16½ SALT WH ORG CAST (814-15 CLY STRINGERS) 816½ WH & ORANGE BISQUIT; 16½-20 70% SALT CRUMBLY, 30% SH-RED-GREEN.

BLEW OUT @ 821

820-30'	SALT 90%, 10% ANHY.
30-40'	SALT 30%, SH ST 70%, TRACE ANHY.
40-50'	SALT 80%, 20% ANHY.
50-60'	60% SALT, 20% SLT ST RED GREEN, 20% ANHY.
60-70'	80% AA, 10% SLT ST RED, 10% ANHY.
70-80'	80% AA, 20% AA.
80-90'	80% AA, 20% AA.
90-00'	70% AA, 30% AA.
900-10'	70% SALT WH, 30% SLT ST RED.
10-20'	70% AA, 20% AA, 10% ANHY.
20-30'	80% AA, 20% AA, TRACE.
30-40'	80% AA, 10% AA, 10% ANHY.
40-50'	70% AA, 30% AA.
50-60'	SALT 60%, ANHY 40%.
60-70'	SALT 70%, SLT ST 20%, ANHY 10%.
70-80'	AA 80%, AA TRACE, AA 20%.
80-90'	AA 90% AA, AA 10%.
90-00'	AA 70% AA 30%, TRACE.
1000-10'	SALT WH 100%.
10-20'	SALT AA AA.
20-30'	SLT ST RED, SDY 70%, SALT 10%, ANHY GRY 20%.

30-40' SAME.

40-50' ANHY WH-BRNISH GRY SPOTTED IN APPEARANCE.

50-60' DOLO-BRN DNSE APPEAR TO BASE SALT INCL IN HAIRLINE FRACS.

60-70' SLTY GREEN SANDSTONE.

70-75' AA, W/SOME ANHY.

COMPLETED JUNE 14, 1965

DETAILED CORE DESCRIPTION

WELL NAME: AEC CORE TEST #37 NMA

LOCATION:

ELEVATION:

DO NOT REMOVE FROM FILE

CORE WS #1

770-75.2-5.3 — 15" SALT WHT, 11" SALT VLT ORNG 10% SH & ANHY, 16" SH 30% SALT, 21" SH 20% SALT (BISCUIT-HOT-VERY POORLY DEVELOPED - 772.8).

75.2-81-5.9 — 8" SH 20% SALT (BISCUIT-HOT-775.9), 14" SALT 20% SH, 27" SH 30% SALT, 20% SALT 30% SH.

81-86.4-5.6 — 18" SALT 5% SH, 16" SH 20% SALT, (V THIN BISCUIT-SL HOT-782.8), 10" SALT 20% SH, 22" SALT CLEAR TRS SH.

86.4-92-5.8 — SALT VLT ORNG & CLEAR SL TRS SH & ANHY-ORNG BLEBS-TR CARNALITE 790.1-SYLVITE & RED 791.

92-97.3-5.3 — 35" SALT 15% SH TRS SYLVITE & RED (794-95 GOOD), 28" SALT TRS KCL & K_2O-VLT ORNG & ORNG BLEBS.

97.3-03-5.8 — 23" SALT SEES SYLVITE-(BISCUIT-THIN SL HOT 799.4), 12" SH 30% SALT, 26" SALT 40% SH, 7" SALT 30% SH (VV THIN BISCUIT VSL HOT-802.4).

03-08.6-5.6 — 13" SALT 40% SH, 34" SALT 30% SH, 19" SALT 20% SH.

08.6-14-5.7 — 5" SALT 10% IMP, 62" SALT TRS IMP-VLT AMBER-ORANGE.

14-19.8-5.9 — 46" SALT VLT ORNG, TRS IMP, (2" BISCUIT HOT-818), 23" SALT 40% SH.

CORE WS #2

784-89.4-5.6 — SALT VLT ORNG & CLEAR TRS SH & ANHY ORNG BLEBS TR CARNALITE 787.10.

89.4-94.9-5.8 — 4" SALT VLT ORNG & CLEAR, 10" SALT 20% SH, TRS K_2O, 5½" SALT 10% SH, 12" SALT (791-792 GOOD-RED & CLOUDY), 16½" SALT 10% SH, 20" SALT-VLT ORNG-ORNG BLEBS-VSL TRS KCL.

94.9-00.5-5.6 — 13" SALT 10% SH-VSL TRS KCL, 2" SH, 25" SALT 30% SH, 2" SALT 20% SH-(NO BISCUIT), 5½" SALT W/2% ANHY PRNGS-(V QUESTIONABLE, NON HOT BISCUIT-799.5½), 19" SALT 30% SH.

00.5-06-5.8 — 36" SALT 30% SH & ANHY, 10" SALT 10% IMP, 22" SALT 20% SH & ANHY.

CORE SH

770-76-5.9 — 23" SALT 10% IMP, 46" SH 30% SALT.

76-81.9-5.8 — 2" SH 30% SALT, 9" SALT 30% SH, 24" SALT 50% SH, 33" SALT 20% SH.

81.9-87.3-5.6 — 5" SALT-CLEAR, 6" SALT 30% SH, 17" SH 30% SALT, 7" SALT 10% SH, 31" SALT CLEAR TRS SH & ANHY(ZONE OF ANHY BANDS-A786.7 A-B 19½"-B-C 3½"-C-D 2½"-D-E 14"-E-F 2").

87.3-92.6-5.4 — 45" SALT TRS IMP-CARNALITE 788.5, 19" SALT 20% SH SYLVITE.

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92.6-98.4-5.10	13" SALT 20% SH, 53" SALT SL TRS KCL-(BISCUIT-998), 4" SH 30% SALT.
98.4-03.11-5.9	23" SALT 50% SH, 38" SALT 30% SH, 8" SALT 10% IMP.
03.11-09.6-5.8	22" SALT 20% IMP, 12" SALT 10% IMP, 34" SALT CLEAR TO VLT ORNG TRS IMP.
09.6-15.4-5.8	53" SALT VLT ORNG TRS IMP, 10" SALT 10% ANHY, 5" SALT VLT ORNG TRS IMP.
15.4-20-4.6	12" SALT VLT ORNG TRS ANHY (BISCUIT-HOT 816.6), 39" SALT 30% SH, 3" SH, 10% SALT.

[illegible]

Drilling Record

WELL NAME: [illegible]

LOCATION: [illegible]

WELL ELEVATION: [illegible] K.B.

CONTRACTOR: [illegible]

SPUD DATE: [illegible]

SIZE HOLE DRILLED: [illegible]" TO [illegible]'

TYPE DRILLING FLUID: [illegible]

SURFACE CASING:
Size [illegible]", Wt. [illegible] #, No. Sacks Cement [illegible]
Cementing Depth: [illegible]'

SIZE HOLE DRILLED: [illegible]"

TYPE DRILLING FLUID: [illegible]

INTERMEDIATE CASING:
Size [illegible]", Wt. [illegible] #, No. Sacks Cement [illegible]
Cementing Depth [illegible]

SIZE HOLE DRILLED OR CORED:
[illegible]" from [illegible]' to [illegible]' (C)
[illegible]" from [illegible]' to [illegible]'
[illegible]" from [illegible]' to [illegible]'
[illegible]" from [illegible]' to [illegible]'

DRILL STEM TESTS:
[illegible]

NO. BITS USED: [illegible]

ELECTRIC LOGS RUN:
Type [illegible] from [illegible]' to [illegible]'
from [illegible]' to [illegible]'

ABANDONMENT PLUGS:
No. Sacks Cement [illegible] from [illegible]' to [illegible]'
[illegible] from [illegible]' to [illegible]'

WAS CASING RECOVERED?
Depth Shot [illegible]', [illegible]', [illegible]'
No. Feet Recovered [illegible]'
No. Feet Not Recovered [illegible]'

DATE DRILLING RIG RELEASED: [illegible]

COMPANY REPRESENTATIVE: [illegible]

SPECIAL NOTES: Unusual drilling problems encountered, etc.
(A) [illegible] MUD WHILE DRILLING FROM [illegible] TO [illegible]
(B) [illegible]
(C) [illegible]
[illegible]
[illegible]
[illegible]

DO NOT REMOVE FROM FILE

8-12

ARKLA EXPLORATION COMPANY

Drilling Record

WELL NAME: [illegible]

WELL LOCATION: [illegible]

WELL ELEVATION: 5286 ' K.B.

CONTRACTOR: SCHOURUPP DRILLING CO.

SPUD DATE: 6-5-65 - 2:00PM

SIZE HOLE DRILLED: 13¾ " to 55 '

TYPE DRILLING FLUID: GEL

SURFACE CASING:
Size 10¾ ", Wt. 32.75 #, No. Sacks Cement 35
Cementing Depth: 52 '

SIZE HOLE DRILLED: 8¾ "

TYPE DRILLING FLUID: FLO SOL (A)

INTERMEDIATE CASING:
Size 7 ", Wt. 20 #, No. Sacks Cement [illegible] (B)
Cementing Depth 695

SIZE HOLE DRILLED OR CORED:
6¼ " from 695 ' to 1075 ' (C)
" from ' to '
" from ' to '
" from ' to '

DRILL STEM TESTS:

NO. BITS USED: 2

ELECTRIC LOGS RAN:
Type MacCULLOUGH CBN from ' to '
from ' to '

ABANDONMENT PLUGS:
No. Sacks Cement 100 from 1075 ' to 975 '
50 from 800 ' to 750 '

WAS CASING RECOVERED?
Depth Shot ', ', '
No. Feet Recovered '
No. Feet Not Recovered 695 '

DATE DRILLING RIG RELEASED: 6-14-65 - 11:00PM

COMPANY REPRESENTATIVE: JAMES S. BALDRY

SPECIAL NOTES: Unusual drilling problems encountered, etc.
(A) LOST MUD WHILE DRILLING FROM 300' TO 695'
(B) CIRCULATED CEMENT
(C) SIDETRACTED HOLE #1 @ 705' - DRILLED AND CORED TO 810'
SIDETRACTED HOLE #2 @ 725' - DRILLED AND CORED TO 1030'
STRAIGHT HOLE DRILLED AND CORED TO 1075'

DO NOT REMOVE FROM FILE

8-2

Drilling Record

WELL NAME: [illegible]

WELL LOCATION: [illegible] 2010' FNL & 865' FEL [illegible]
SEC 25 T6N-22E [illegible]

WELL ELEVATION: [illegible] 5286' [illegible] KB

CONTRACTOR: SOJOURNER DRILLING CO.

SPUD DATE: 6-5-65 - 2:00PM

SIZE HOLE DRILLED: 15 [illegible] " to 55 [illegible]

TYPE DRILLING FLUID: GEL

SURFACE CASING:
Size 10 [illegible] ", Wt. 32.75 #, No. Sacks Cement 35
Cementing Depth: 52

SIZE HOLE DRILLED: 8 [illegible] "

TYPE DRILLING FLUID: FLO SOL (4)

INTERMEDIATE CASING:
Size 7 ", Wt. 20 #, No. Sacks Cement 125 (a)
Cementing Depth 695

SIZE HOLE DRILLED OR CORED:
[illegible] " from 695 to 1025 (C)
[illegible] " from [illegible] to [illegible]
[illegible] " from [illegible] to [illegible]
[illegible] " from [illegible] to [illegible]

DRILL STEM TESTS:

NO. BITS USED: 2

ELECTRIC LOGS RAN:
Type McCULLOUGH GRN from [illegible] to [illegible]
from [illegible] to [illegible]

ABANDONMENT PLUGS:
No. Sacks Cement 100 from 1025 to 575
50 from 500 to 250

WAS CASING RECOVERED?
Depth Shot
No. Feet Recovered
No. Feet Not Recovered 695

DATE DRILLING RIG RELEASED: 6-14-65 - 1:00PM

COMPANY REPRESENTATIVE: JAMES S. BAUDRY

SPECIAL NOTES: (Unusual drilling problems encountered, etc.)
(A) LOST MUD WHILE DRILLING FROM 300 TO 695
(B) CIRCULATED CEMENT
(C) SIDETRACKED HOLE #1 @ 705' - DRILLED AND CORED TO 1010'
SIDETRACKED HOLE #2 @ 725' - DRILLED AND CORED TO 878'
STRAIGHT HOLE DRILLED AND CORED TO 1025'

DO NOT REMOVE FROM FILE

842

AREA: [illegible] EXPLORATION [illegible]

Drilling Record

WELL NAME: [illegible]

WELL LOCATION: [illegible] SEC 25-16N-22E

WELL ELEVATION: 5286 K.B.

CONTRACTOR: SOJOURNER DRILLING CO.

SPUD DATE: 6-5-65 - 2:00PM

SIZE HOLE DRILLED: 13 3/4" to 55

TYPE DRILLING FLUID: GEL

SURFACE CASING:
Size 10 3/4", Wt. 32.75 #, No. Sacks Cement 35
Cementing Depth: 52

SIZE HOLE DRILLED: 8 3/4"

TYPE DRILLING FLUID: FLO SOL (A)

INTERMEDIATE CASING:
Size 7", Wt. 20 #, No. Sacks Cement 425 (B)
Cementing Depth 695

SIZE HOLE DRILLED OR CORED:
6 1/4" from 695 to 725 (C)
" from to
" from to
" from to

DRILL STEM TESTS:

NO. BITS USED: 2

ELECTRIC LOGS RAN:
Type McCULLOUGH CRN from to
from to

ABANDONMENT PLUGS:
No. Sacks Cement 100 from 1025 to 525
50 from 500 to 350

WAS CASING RECOVERED?
Depth Shot
No. Feet Recovered
No. Feet Not Recovered 695

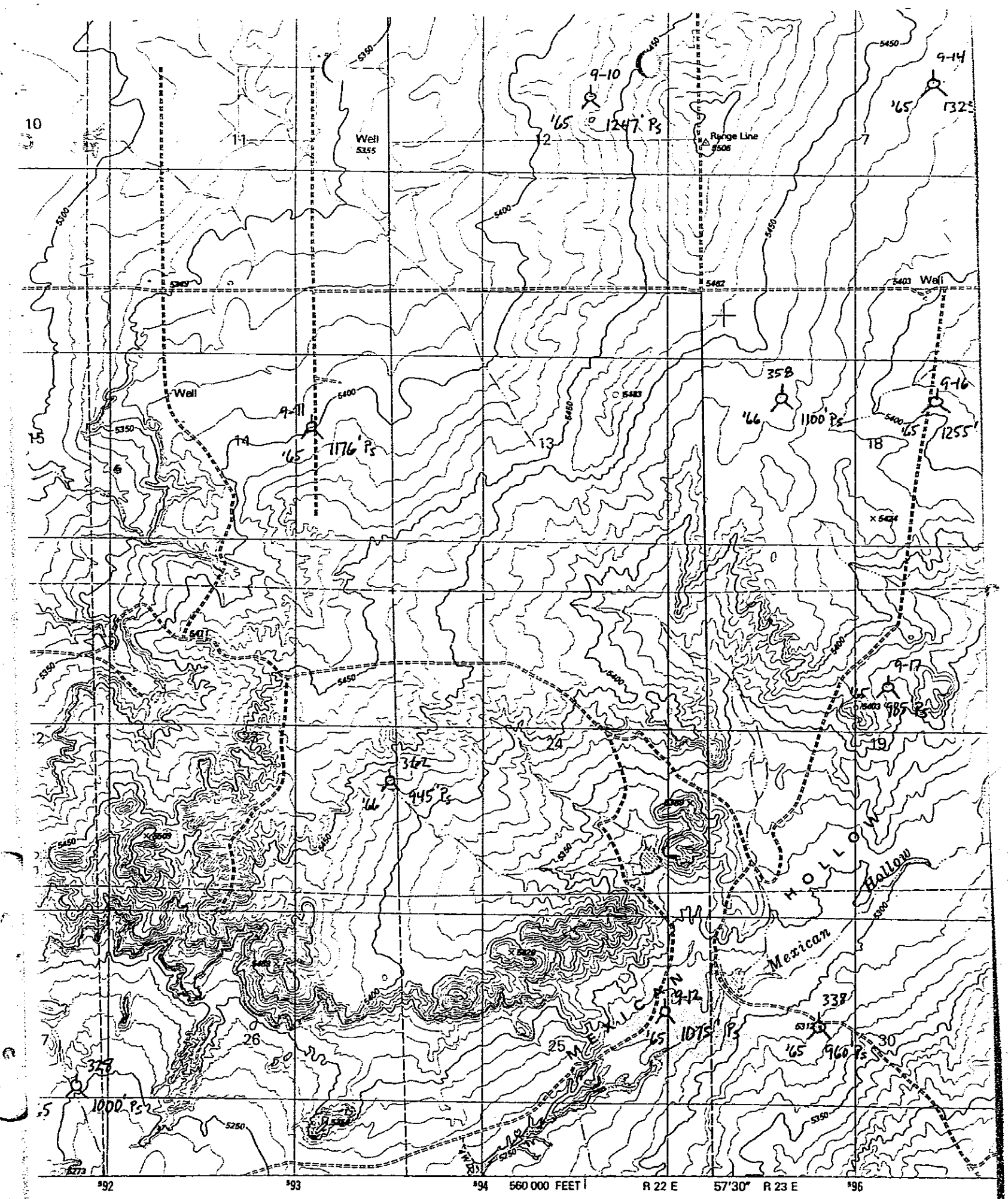
DATE DRILLING RIG RELEASED: 6-14-65 - 11:00PM

COMPANY REPRESENTATIVE: JAMES STRAUBER

SPECIAL NOTES: (Unusual drilling problems encountered, etc.)
(A) LOST MUD WHILE DRILLING FROM 500 TO 695
(B) CIRCULATED CEMENT
(C) SIDE TRACKED HOLE #1 @ 705' - DRILLED AND CORED TO 1015
SIDE TRACKED HOLE #2 @ 725' - DRILLED AND CORED TO 1015
STRAIGHT HOLE DRILLED AND CORED TO 1025

DO NOT REMOVE FROM FILE

8-2



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Permit 9-12.

STATE: ARIZONA
COUNTY: NAVAJO
API 02-017-05155

16N-22E 25
SE NE
2010 FNL 866 FEL
STATUS: D&A

WELL CLASS: S
OPR: ARKLA EXPL

37 NMA STRAT TEST

SPUD: 06/05/65 COMP: 06/16/65 ELEV: 5286 KB 5279 GR
TD: 1075 (06/14/65) FM/TD: SUPAI
CONTR: SOJOURNER DRLG (R)
PROJ DEPTH/FM: 1075 SUPAI

COMP 6/16/65, D&A. FOUR CORES, ONE DST FIRST REPORT & COMPLETION

LOC DESCRIPTION: 12 MI SE HOLBROOK, AZ;
CASING: 10 1/4 @ 52 W/35 SX, 7 @ 695 W/125 SX;

CORE # 1 (SUPAI) 770-821 REC: 52 FT, 13 FT SH RED, SALT WH-PK, 3 FT SALT, WH, DNS, 7 FT SALT, WH-PK-ORG, CLY STRK, 5 FT POTASH, SHLY, 4 FT SALT, ORG, 1 FT CLYGRY, HALITE, 6 FT SH SALTY, WH, 13 FT SALT, XYLN, WH W/ORG CAST, SHLY, CLY CORE # 2 (SUPAI) 770-796 REC: 26 FT, 5 FT SH RD, SALT, FRAC, 3 FT SALT, WH-PK, 13 FT SALT, WH, VFG-XYLN, SHLY, RD-GRN, ANHY, STRNGRS, GRN, 5 FT POTASH (STH #1) CORE # 3 (SUPAI) 796-818 REC: 23 FT, 1 FT SH RD, SALTY, 4 FT POTASH, 5 FT SALT, SHLY, RD, 11 FT SALT, WH, ANHY, STRNGR, 2 FT SH RD, SLTY, SALT, WH INCL (STH #1) CORE # 4 (SUPAI) 784-810 REC: 26 FT, 2 FT SH, 6 FT SALT, WH, ORG, BLEBS, 7 FT POTASH, WH, SALTY, ORG CAST SCAT, 2 FT SH RD, 9 FT SALT, SHLY;

DST # 1 (SUPAI) 779-819, OP 1 HR, SI 30 MIN, OP 2 HR, SI 1 HR, REC: 270 FT MUD&DSL, IFP 175, FFP 175, IFP 175, FFP 175, ISIP 240, FSIP 175, IHP 400, FHP 400; LOST CIRCULATION @ 300-695

(OVER)

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DATE 11/17/95 CARD # 00001-F COR

STATE: ARIZONA
COUNTY: NAVAJO
API 02-017-05155

16N-22E 25
SE NE
2010 FNL 866 FEL
STATUS: D&A

WELL CLASS: S
OPR: ARKLA EXPL

37 NMA STRAT TEST

(CONTINUED)

DRLG COMMENTS: WELL BLEW OUT @ 821 IN STRAIGHT HOLE, WELL BLEW OUT @ 816 & 818 IN STH #1.
OPER ADD: BOX 1439, OKLAHOMA CITY, OK, 73101-1439;

DATE 11/17/95 CARD # 00001-F COR

State of Arizona
Arizona Geological Survey
416 W. Congress, Suite 100
Tucson, Arizona 85701
(520) 770-3500

Fife Symington
Governor

Larry D. Fellows
Director and State Geologist

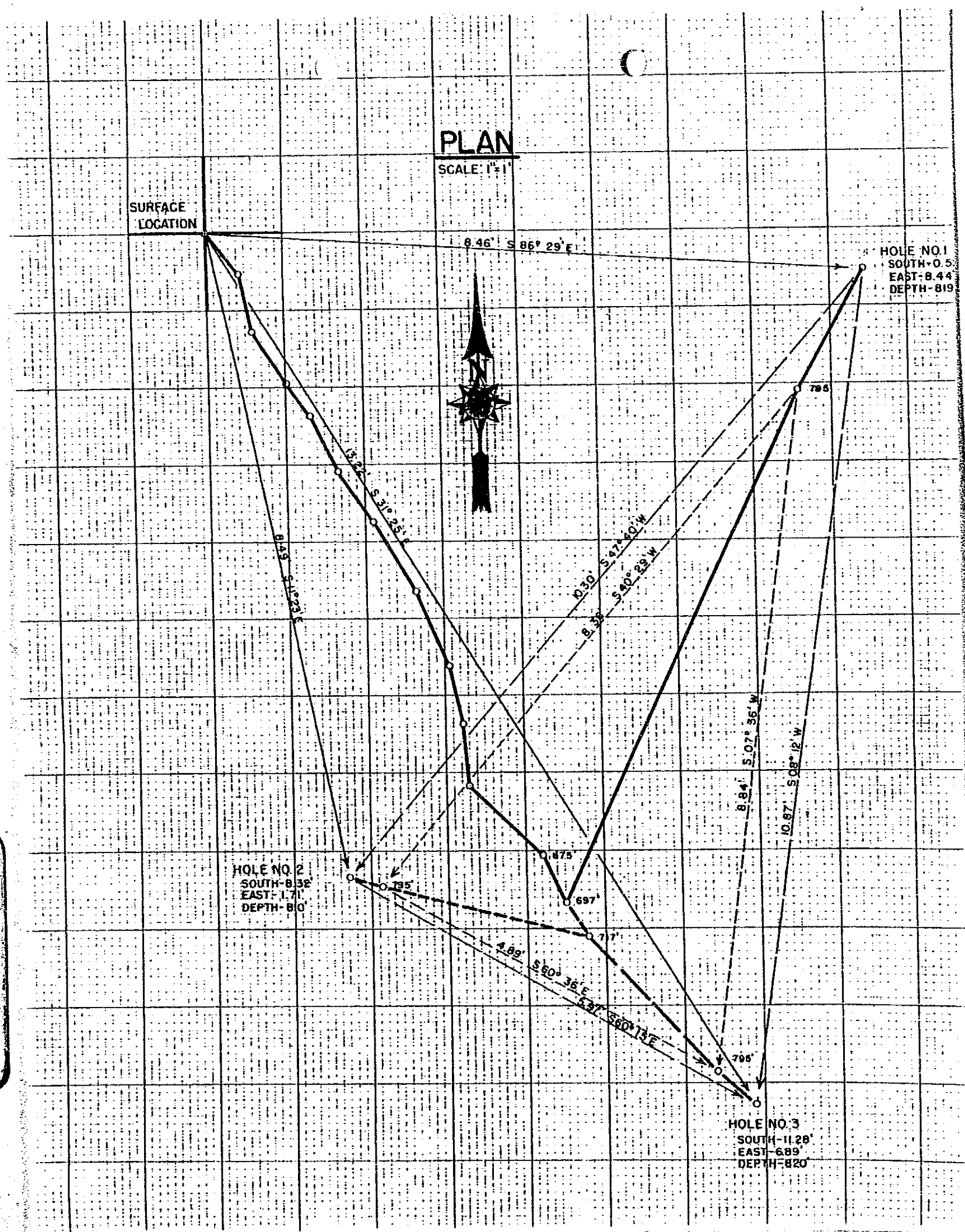
October 23, 1995

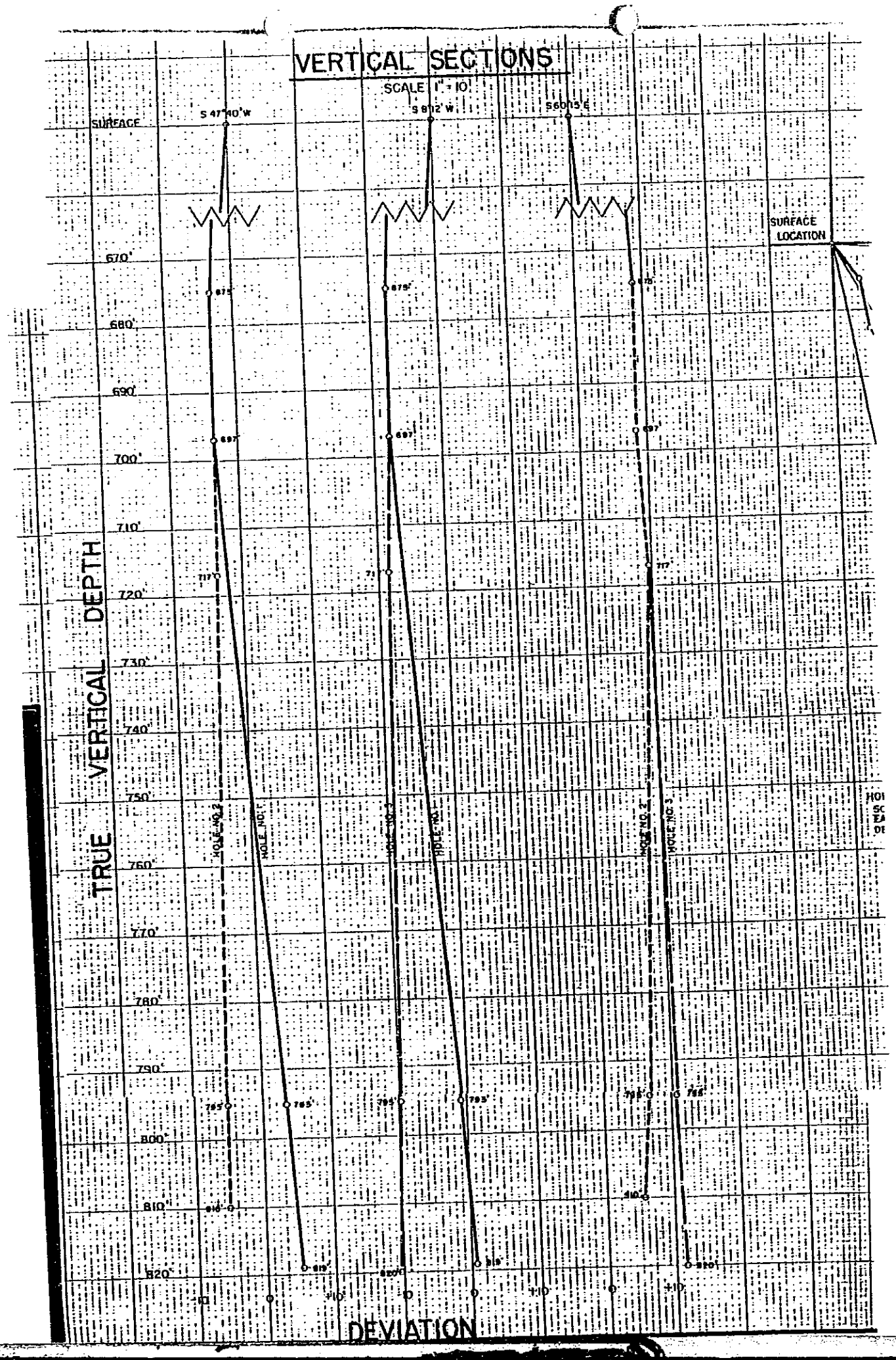
Memo: Kevon Smith, PI
From: SR Steve Rauzi, AZGS
Re: Arkla well in need of API #

The enclosed well information is for the Arkla 37 NMA core test, the well in need of an API number. I'm glad I pulled this information. The record indicates that this hole had two blow outs! Apparently one in the straight hole and one in the first side track. There is pressure in the Holbrook basin after all!

Thanks again —
the API# will be 02-017-05155
and is being processed into our records now.

Kevon.


PLAN
SCALE: 1"=1'
SURFACE LOCATION
8.46' S 86° 29' E
HOLE NO.1
SOUTH-0.5'
EAST-8.44'
DEPTH-819'
795
13.22' S 31° 25' E
8.49' S 11° 23' E
10.30' S 47° 50' W
8.32' S 40° 29' W
8.84' S 07° 36' W
10.87' S 08° 12' W
875'
697'
717'
HOLE NO.2
SOUTH-8.32'
EAST-1.71'
DEPTH-810'
795'
4.89' S 60° 36' E
5.37' S 60° 13' E
795'
HOLE NO.3
SOUTH-11.28'
EAST-6.89'
DEPTH-820'


VERTICAL SECTIONS
SCALE 1" = 10'
SURFACE
S 47°40' W
S 8°12' W
S 60°15' E
SURFACE LOCATION
TRUE VERTICAL DEPTH
670'
680'
690'
700'
710'
720'
730'
740'
750'
760'
770'
780'
790'
800'
810'
820'
HOLE NO. 2
HOLE NO. 1
HOLE NO. 3
HOLE NO. 1
HOLE NO. 2
HOLE NO. 3
-10
0
+10
DEVIATION

WELL NAME: AEC - NMA#37

LOCATION:

ELEVATION:

SPUD - JUNE 5, 1965 10¾" SET @ 55' W/35 SX

DO NOT REMOVE FROM FILE

0-10'	SURFACE SAND.
10-20'	SAME.
20-30'	SAME.
30-40'	SAME.
40-50'	SLT ST RED - 50% - CONG SH-SURFACE SAND.
50-60'	SH-RED GREEN, 30% GYP.
60-70'	SAME - INC IN RED SH - INC IN GYP.
70-80'	SAME, TRC GYP.
80-90'	AA, INC IN GREEN-GEC SILTY, TRC GYP.
90-00'	AA, BEC RED, TRC GYP.
100-10'	SH-RED-SH GREEN GYPY-STREAKS WITH SELNITE.
10-20'	SAME-RED SH-BEC GYPY.
20-30'	SH-RED 90%-BEC SLTY-SH GREEN 10%-GYP.
30-40'	AA, DOLO TAN FXYLN SUCROSE 20%.
40-50'	SLT ST-SH-REDDISH BRN, AA 10%.
50-55'	AA 80%, (SD-GREENISH WH W/FLECKS OF GILSONITE GYPSIFEROUS.
55-60'	SD-RED-DN GRN MICA FLECKED RED SD.
60-65'	AA, AA INTSTL CLY, (20% BRN SLTY SH) TRC GYP.
65-70'	AA, 70%, 30% AA, TRC DOLO.
70-75'	PCS WH BBNAA.
75-80'	SLT ST BRN 70% DOL-WH-VF XYLN 30%, PCS PK SD-PCS WN COCO SD.
80-85'	1--% GRY WH-VF XYLN DOL.
85-90'	SD WH-RD-SUB RD-CLEAR-PYRITIC F-MG, GYPY.
90-95'	AA, MED-COARSE GRAIN.
CIRC	AA.
95-00'	AA, BEC MORE COARSE XYLN PYRITIC, 10% GYP.

#9-12

CIRC	AA.
200-10'	SD-WH-WELL CONSOL-F MG RD-SUB RD.
10-20'	AA MG PYRITIC.
20-30'	SAME-MORE PYRITIC.
30-40'	BEC MORE COARSE GRAINED.
40-50'	AA.
50-60'	SD WH RD-SUB RD-CG CLEAR-FROSTED UNCONSOLIDATED BEC BEUTENTIC.
60-70'	AA, AA.
70-80'	AA, AA.
80-90'	AA, AA.
90-00'	AA, BEC MORE CONSOLIDATED, BEC BEUT.
300-10'	SD-VCG WH PYRITIC UNCONSOLIDATED.
10-20'	AA.
20-30'	AA LARGE GRAIN BENTENITIC.
30-40'	AA.
40-50'	AS ABOVE.
50-60'	AA.
60-70'	AA BEC MORE CONSOL, TRC RED SLT ST.
70-80'	SD-WH-RD-SUB RD-CG UNCONSOLIDATED-CLEAR PYRITIC.
80-90'	SAME.
90-00'	AA, BENTONITIC.
400-10'	AA.
10-20'	AA.
20-30'	AA SLIGHTLY PK, VERY BENTONITIC.
30-40'	AA BEC MORE CONSOLIDATED AA.
40-50'	AA MORE COARSE.
50-60'	SD WH-CG CONSOLIDATED SILICIOUS CEMENT.
60-70'	SAME BENTONITIC-TRC REDDISH BRN SH.
70-80'	AA AA 10%.
80-90'	AA BEC PINK.

90-00'	SD-LIGHT ORANGE-MED-CG RD-SUB RD, ARG IN PT.
500-10'	SD AS ABOVE, SH-SLTY-RED 30%.
10-20'	SD-WH-LIGHT PK CG-WELL CEMENTED (SIL) ARG IN PT.
20-30'	AA, AA LIGHT ORG CG CONSOLIDATED.
30-40'	AA BEC MORE ORANGE CONSOL ARG.
40-45'	AA, ORG CG ARG IN PT-INTSTL CLY POROUS.
45-50'	AA.
50-55'	AA ARG-INTER GRAIN POR-(10% WH SD CG-POROUS).
55-60'	AA ORG ARG & ORG SD-CG.
CIRC	SAME.
60-70'	SD-DBK ORG-ARG CG CONSOL.
70-80'	SD-PK-ORG LESS ARG.
80-90'	SAME-PCS RED SLT ST.
90-00'	SD-ORG-WH CG GRAINS & CLUSTERS.
600-10'	AA AA AA TRC GYP, (ORG SD ARG)PCS SDY RED SLT ST.
10-20'	SD BEC MORE WH 40% SDY SLT ST-RED.
20-30'	80% SDY SLT ST-RED, PCS WH GRY DOLO SD.
30-40'	AA, AA, SD WH SILICIOUS.
40-45'	60% ORG & WH SD ARG F MG (AA 40%) TRC TAN LS.
45-50'	SD WH SIL 10%-RED SLTY SD & SDY SLT, PCS SLTY BUFF DOLO.
50-55'	SAME AA, PCS WH GYP.
55-60'	AA AA, BEC MORE SHY, SLT INC IN DOLO, PCS WH GYP.
60-65'	SDY SLTY SH-RED PCS VFG SLTY GREEN SD 10%, PCS WH GYP, SLT INC IN DOLO.
65-70'	AA, INC IN GYP TRC ANHY.
70-75'	GRY WH ANHY 90%, SH 10%.
75-80'	ANHY 90%-10% SLT ST RED.
80-85'	ANHY 60%-40% RED SLT ST.
85-90'	SLT ST RD, PCS GREEN TRC ANHY.
90-95'	AA.
95-00'	SH RED, W/GREEN FLECKS.

700-05' SH RED, W/GREEN FLECKS, (10% ANHY).

05-10' AA 70%, 30% ANHY.

10-15' AA 40%, 60% AA.

15-20' AA 70%, 30% AA.

20-25' ANHY 100%.

25-30' AA.

30-35' AA.

35-40' SH-RED-SLTY 100%.

40-45' SH-RED & GREEN 70%, 30% ANHY.

45-50' AA 80%, 20% AA.

50-55' 80% ANHY WH-LT TAN.

55-60' 100% ANHY WH-LT TAN.

60-65' 70% AA.

65-70' SALT.

WS#1 CORE #1, REC 26'3" 770-796

770-71 PURE WH SALT; 70-72 PKISH WH SALT W/10% REDDISH SH IMP. 72-76 80% SH RED W/20% SALT INCL AND SALT FILLED HAIRLINE FRAC; 76-77 SALT 80% W/20% SH RED & GREEN IMP; 77-79 SALT 70%-30% RED SH IMP; 79-82½ SALT WH 90%-10% IMP; 82½-84½ SALT 80%-20%RED & GREEN SH IMP; 84½-88 SALT WH W ORG AND PK CAST STRINGER OF SH IMP; 88-90 SALT VF XYLN MILKY WH W/THING STINGER ANHY; 90-92 SALT WH W/ORG BLEBS THIN STRINGERS GRN ANHY; 92-96 POTASH ZONE.

WS #1 CORE #2, REC 23' 796-818

796-99 SAME; 99-99.3 BISQUIT; 99.3-04 SHALE 90%-RED-SALT 10% WH; 04-08 SCATTERED PITS, SALT 80%, SH RED 20%; 08-18 SALT WHITE W/ORNG CAST-ANHY STRINGER @ 81?½ BISQUIT @ 818; 18-19'9½" SHALE 80% RED SLTY SALT WHITE INCLUSIONS 20%.

BLEW OUT @ 816- DRILLED 2' AND BLEW OUT AGAIN SHEET DOWN TO MIX MUD & COME OUT OF HOLE.

DST #1 779-819 SHUT IN 30 MIN INITIAL 1 HOUR FINAL.
TOOL OPEN 1 HOUR-QTS 1½ MIN TSTM-
SPIT DEISEL 6 MIN. REC 270' FLUID-DEISEL & MUD

IFP 175#	ISIP 240#	IHP 400#
FFP 175#	FSIP 175#	FHP 400#

WS #2 CORE #1 CORE AS A WHOLE IS LEACHED & DIRTY 784-810 REC 26'

784-89 WH SALT W/PINKISH CAST SCATTERED ORG BLEBS; 89-90 BEE SHY; 90-93 POTASH ZONE; 93-96.3 SAME, MILKY WH SALT ORNG CAST SCATTERED ORG BLEBS; 96[illegible] BISQUIT; 96.3-802 SHALE RED 90[illegible] 10% SALT INCL);

802-806 SALT 80%-SHALE RED 20%; 06-10 SALT W/ORANGE CAST.

STRAIGHT HOLE CORE #1 REC 50' 770-821

770-72 SALT WH DNS; 72-76 SALT 20%, SH RED 80%; 76-79 SALT 40%, SH RED 60% (SALT CRUMBLY); SALT 90% (10% RED SH IMPURTIES); 83-84 SALT 40%, 60% SH RED; 84-86 SALT WH W/PINKISH CAST, 5% IMPURITIES; 86-91 SALT WH-ORANGE CAST CLY STREAKS GRY SCATTERED ORG BLEBS; 91-95 POTASH ZONE-SHY-CORNALITE SYLVITE-POLYHALITE;-95-96 ORANGE SALT; 96-98 SALT MIKLY WH W/SCATTERED ORT BLEBS 798-BISQUIT GRY CLY STRINGER POLY HALITE; 98-03 SHALE 80-90% SALT WH 10-20% CRUMBLEY SALT; 03-07 SALT 90% XYLN WH SH RED IMP; 07-16½ SALT WH ORG CAST (814-15 CLY STRINGERS) 816½ WH & ORANGE BISQUIT; 16½-20 70% SALT CRUMBLY, 30% SH-RED-GREEN.

BLEW OUT @ 821

820-30'	SALT 90%, 10% ANHY.
30-40'	SALT 30%, SH ST 70%, TRACE ANHY.
40-50'	SALT 80%, 20% ANHY.
50-60'	60% SALT, 20% SLT ST RED GREEN, 20% ANHY.
60-70'	80% AA, 10% SLT ST RED, 10% ANHY.
70-80'	80% AA, 20% AA.
80-90'	80% AA, 20% AA.
90-00'	70% AA, 30% AA.
900-10'	70% SALT WH, 30% SLT ST RED.
10-20'	70% AA, 20% AA, 10% ANHY.
20-30'	80% AA, 20% AA, TRACE.
30-40'	80% AA, 10% AA, 10% ANHY.
40-50'	70% AA, 30% AA.
50-60'	SALT 60%, ANHY 40%.
60-70'	SALT 70%, SLT ST 20%, ANHY 10%.
70-80'	AA 80%, AA TRACE, AA 20%.
80-90'	AA 90% AA, AA 10%.
90-00'	AA 70% AA 30%, TRACE.
1000-10'	SALT WH 100%.
10-20'	SALT AA AA.
20-30'	SLT ST RED, SDY 70%, SALT 10%, ANHY GRY 20%.

30-40' SAME.

40-50' ANHY WH-BRNISH GRY SPOTTED IN APPEARANCE.

50-60' DOLO-BRN DNSE APPEAR TO BASE SALT INCL IN HAIRLINE FRACS.

60-70' SLTY GREEN SANDSTONE.

70-75' AA, W/SOME ANHY.

COMPLETEB JUNE 14, 1965

DETAILED CORE DESCRIPTION

WELL NAME: AEC CORE TEST #37 NMA

LOCATION:

ELEVATION:

DO NOT REMOVE FROM FILE

CORE WS #1

770-75.2-5.3 — 15" SALT WHT, 11" SALT VLT ORNG 10% SH & ANHY, 16" SH 30% SALT, 21" SH 20% SALT (BISCUIT-HOT-VERY POORLY DEVELOPED - 772.8).

75.2-81-5.9 — 8" SH 20% SALT (BISCUIT-HOT-775.9), 14" SALT 20% SH, 27" SH 30% SALT, 20% SALT 30% SH.

81-86.4-5.6 — 18" SALT 5% SH, 16" SH 20% SALT, (V THIN BISCUIT-SL HOT-782.8), 10" SALT 20% SH, 22" SALT CLEAR TRS SH.

86.4-92-5.8 — SALT VLT ORNG & CLEAR SL TRS SH & ANHY-ORNG BLEBS-TR CARNALITE 790.1-SYLVITE & RED 791.

92-97.3-5.3 — 35" SALT 15% SH TRS SYLVITE & RED (794-95 GOOD), 28" SALT TRS KCL & K_2O-VLT ORNG & ORNG BLEBS.

97.3-03-5.8 — 23" SALT SEMS SYLVITE-(BISCUIT-THIN SL HOT 799.4), 12" SH 30% SALT, 26" SALT 40% SH, 7" SALT 30% SH (VV THIN BISCUIT VSL HOT-802.4).

03-08.6-5.6 — 13" SALT 40% SH, 34" SALT 30% SH, 19" SALT 20% SH.

08.6-14-5.7 — 5" SALT 10% IMP, 62" SALT TRS IMP-VLT AMBER-ORANGE.

14-19.8-5.9 — 46" SALT VLT ORNG, TRS IMP, (2" BISCUIT HOT-818), 23" SALT 40% SH.

CORE WS #2

784-89.4-5.6 — SALT VLT ORNG & CLEAR TRS SH & ANHY ORNG BLEBS TR CARNALITE 787.10.

89.4-94.9-5.8 — 4" SALT VLT ORNG & CLEAR, 10" SALT 20% SH, TRS K_2O, 5½" SALT 10% SH, 12" SALT (791-792 GOOD-RED & CLOUDY), 16½" SALT 10% SH, 20" SALT-VLT ORNG-ORNG BLEBS-VSL TRS KCL.

94.9-00.5-5.6 — 13" SALT 10% SH-VSL TRS KCL, 2" SH, 25" SALT 30% SH, 2" SALT 20% SH-(NO BISCUIT), 5½" SALT W/2% ANHY PRNGS-(V QUESTIONABLE, NON HOT BISCUIT-799.5½), 19" SALT 30% SH.

00.5-06-5.8 — 36" SALT 30% SH & ANHY, 10" SALT 10% IMP, 22" SALT 20% SH & ANHY.

CORE SH

770-76-5.9 — 23" SALT 10% IMP, 46" SH 30% SALT.

76-81.9-5.8 — 2" SH 30% SALT, 9" SALT 30% SH, 24" SALT 50% SH, 33" SALT 20% SH.

81.9-87.3-5.6 — 5" SALT-CLEAR, 6" SALT 30% SH, 17" SH 30% SALT, 7" SALT 10% SH, 31" SALT CLEAR TRS SH & ANHY&ZONE OF ANHY BANDS-A786.7 A-B 19½"-B-C 3½"-C-D 2½"-D-E 14"-E-F 2").

87.3-92.6-5.4 — 45" SALT TRS IMP-CARNALITE 788.5, 19" SALT 20% SH SYLVITE.

9-12

92.6-98.4-5.10	13" SALT 20% SH, 53" SALT SL TRS KCL-(BISCUIT-998), 4" SH 30% SALT.
98.4-03.11-5.9	23" SALT 50% SH, 38" SALT 30% SH, 8" SALT 10% IMP.
03.11-09.6-5.8	22" SALT 20% IMP, 12" SALT 10% IMP, 34" SALT CLEAR TO VLT ORNG TRS IMP.
09.6-15.4-5.8	53" SALT VLT ORNG TRS IMP, 10" SALT 10% ANHY, 5" SALT VLT ORNG TRS IMP.
15.4-20-4.6	12" SALT VLT ORNG TRS ANHY (BISCUIT-HOT 816.6), 39" SALT 30% SH, 3" SH, 10% SALT.