[redacted]

ARKLA EXPLORATION NMA CORE TEST 26
SW/NE Sec 14-T16N-R22E, Navajo 9-11

County NAVAJO

Area

Lease No.

Well Name ARKLA EXPLORATION CO. NMA CORE TEST #26 V, WS1 & WS2 [redacted]

Location SW NE Sec 14 Twp 16N Range 22E Footage 2273 FNL-1341 FEL

Elev 5395 Gr 5402' KB Spud Date 5-25-65 Completed Abandon 6-4-65 Total Depth 1176

Contractor Sojourner

Drilled by Rotary
Cable Tool

Casing Size	Depth	Cement

Production Horizon

Initial Production

REMARKS

Elec Logs GRN-4 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. 02-017-00256 Loc. Plat ___ Dedication

Permit Number NONE Date Issued

9-11

WELL NAME: AEC - #26 NMA

LOCATION:

ELEVATION:

0-10'	70% SD F UNCON, 30% SH RED.
10-20'	30% AA AA, 20% AA AA, 50% SLT RED.
20-30'	20% AA AA, 50% AA AA, 30% AA AA.
30-40'	80% SH RED, 20% SLT RED.
40-50'	40% AA AA, 60% AA AA.
50-60'	80% F RED SLTY, 10% SH RED, 10% SLT RED.
60-70'	100% VF GRN MICA.
70-80'	20% AA AA, 80% SH RED-GRN.
80-90'	100% SH RED.
90-00'	60% VF GRN MICA, 20% SH RED, 20% SLT RED.
100-10'	20% GRN MICA, 80% SH RED.
10-20'	20% VF GRN, 40% SH RED, 30% RED SLT LO GYP.
20-30'	50% SH RED, 30% RED SLT, 20% GYP.
30-40'	100% RED SLT, TR GYP.
40-50'	30% MICAS, 30% SH RED, 40% RED SH.
50-60'	80% VF GRN MICAC, 20% SH.
60-70'	80% AA AA AA, 20% AA.
70-80'	90% AA AA AA, 10% GYP.
80-90'	70% AA AA AA, 30% RED SLT, TR GYP.
90-00'	70% SH RED, 30% RED SLT, TR GYP.
200-10'	60% AA AA, 40% SH RED, TR GYP.
10-20'	70% SH RED, 30% SLT RED.
20-30'	80% SH RED, 10% SLT RED, 10% GYP.
30-40'	20% PURP, 60% SH RED, 20% SLT RED.
40-50'	50% SH RED, 40% SLT RED & GRN.
50-60'	50% RED SLTY, 30% SH RED, 20% RED SLT.

DO NOT REMOVE FROM FILE

60-70'	100% LT BR, RED BR F.
70-80'	100% LS LT GRA BUFF, BR MXLN-SDY.
80-90'	100% SD F WHT SL CGL.
90-00'	AA TO 690'.
690-00'	100% LT RED BR, LT BR F TR SH.
700-05'	100% LS-LT GRA SDY VARVED.
05-10'	100% LT RED BR F SD.
10-20'	100% AA AA.
20-30'	100% AA AA BR F TR LS.
30-40'	60% SD F BR, 20% SH RED, 20% SLT RED.
40-50'	70% SD F BR, 10% LS BUFF, 20% SLT RED.
50-60'	50% AA F RED BR, 50% DOL BR SDY.
60-70'	30% AA AA AA, 70% AA AA.
70-80'	40% AA F HD WHT, 30% AA AA, 30% SLT RED.
80-90'	50% AA AA, 50% ANHY.
90-00'	10% SH, 90% SLT RED.
800-10'	100% SLT RED.
10-20'	40% ANHY, 30% SH, 30% SLT RED.
20-30'	50% ANHY, 50% SLT RED.
30-40'	100% ANHY.
40-50'	50% ANHY, 50% SLT RED.
50-60'	50% ANHY, 50% SLT RED.
60-70'	90% ANHY, 10% SLT RED.
70-80'	CORED TO 925'
925-30'	100% SALT.
30-40'	70% AA, 30% SH.
40-50'	90% AA, 10% AA.
50-60'	100% AA.
60-70'	90% SALT 10% SH.
70-80'	100% AA.

4

80-90'	100% SALT.
90-00'	100% AA.
1000-10'	100% AA.
10-20'	100% AA.
20-30'	90% AA, 10% SH.
30-40'	100% AA.
40-50'	50% AA, 50% ANHY.
50-60'	70% AA, 30% SH.
60-70'	100% AA.
70-80'	100% AA.
80-90'	100% AA.
90-00'	100% AA.
1100-10'	100% AA.
10-20'	80% AA, 20% RED SLT.
20-30'	100% AA.
30-40'	20% AA, 80% REB SLT.
40-50'	90% ANHY, 10% BR DOL.
50-60'	50_ BR DOL, 50% GRN SLT.
60-70'	70% RED SLT, 30% GRN SLT.
70-75'	100% RED SLT.

CORE #1, WHIPSTOCK #1-875'-900' REC. 25'

875-78 PINK & WHT SALT; 78-79 SALT 10% IMP; 79-80 RED SH W/SALT INCLS; 80-85 SALT 30% SH; 85-88 SALT 20% SH; 88-91 SALT 30% SH, BISCUIT 889'1"; 91-96 SALT 10% IMP, ANHY & SH; 96-900 SALT W/KCL IMP %?

CORE #2, WHIPSTOCK #1-900'-926.4' REC.26.4'

900-04 SALT KCL IMP, BISCUIT 903.11'; 04-11 SALT, 30% SH; 11-16 SALT 10% IMP SH & ANHY; 16-22.8 SALT TRS IMP & KCL, BISCUIT 922.8'; 22.8-24 SALT 30% SH; 24-26.4 SH 40% SALT.

CORE #1, WHIPSTOCK #2 890'-916' REC 26'

890-91 SALT 40% SH; 91-93 SALT 20% SH; 93-97 SALT TRS KCL & ANHY STRINGERS, 2" RED BAND AT 897; 97-04 SALT, KCL IMP; 04-09 SALT 30% SH; 09-16 SALT TRS IMP & KCL.

CORE #1 SH

5

876-77 SLT 10% IMP; 77-80 SALT WHT TRS SH & ANHY IMP (BISQUIT 880); 80-82 SH 30% SALT; 82-87 SALT 40% SH; 87-89 SALT 20% SH; 89-91 SALT 40% SH, BISCUIT 890; 91-95 SALT 20% IMP; 95-97 SALT 10% ANHY IMP-TRS KCL; 97-04.9 SALT TRS IMP - KCL BISCUIT 904.9; 04.9-10 SALT 30% SH; 10-16 SALT 20% SH; 16-23.2 SALT TRS IMP & KCL BISCUIT 923.2; 23.2-26 SALT 30% SH.

DETAILED CORE DESCRIPTION

DO NOT REMOVE FROM FILE

WELL NAME: AEC CORE TEST #26 NMA

LOCATION:

ELEVATION:

CORE WS #1

875-80.5-5.7 — 5" SALT 20% ORNG GRAN IMP, 31" SALT TRS IMP ORNG, 11" SALT 10% ORNG IMP (BISCUIT HOT 978.11), 4" SALT 30% SH, 10" SH 10% SALT-INTRUDED, 6" SALT 40% SH.

80.5-86-5.8 — 20" SALT 30% SH, 20" SALT 20% SH, 18" SH 40% SALT, 10" SALT 20% SH.

86-91.9-6 — 10" SALT 20% SH, 19" SALT 10% SH, 12" SH 40% SALT, 19" SALT 40% SH, 12" SALT 20% SH.

91.9-97.5-5.10 — 24" SALT 5% SH & ANHY, 46" SALT TRS ANHY PTNGS-BAND ZONE-HOT ZONE 894.8-903.11-SYLVITE & CARNALITE.

97.5-02.6-5.1 — 9" SALT 5% SH-KCL-, 4" SALT 40% SH, 4" SALT 20% SH TRS GRN SH. ATTEMPT TO MAKE BISCUIT MAY HAVE OCCURED AT 898.4?, 13" SALT 5% IMP K_2O-KCL, 10" SALT 10% IMP SOME SOLUTION CAVITIES AROUND 900, 21" SALT VLT ORNG TRS SYLVITE.

02.6-08.1-5.8 — 16" SALT VLT ORNG TO CLEAR TRS SYLVITE, (BISCUIT-HOT-903.11), 51" SALT 30% SH.

08.1-13.5-5.6 — 22" SALT 40% SH, 14" SALT 30% SH, 30% SALT 20% SH & ANHY.

13.5-18.8-5.6 — 66" SALT TRS SH & ANHY ORNG BLEBS.

18.8-24.6-5.8 — 46" SALT VLT ORNG TRS IMP, (BISCUIT-HOT-922.7), 15" SALT 40% SH, 7" SH 20% SALT.

CORE WS #2

890-95.7-5.10 — 12" SALT 10% SH, 12" SALT 30% SH, 14" SALT 10% SH, 32" SALT VLT ORNG-HOT ZONE-894.11 - TOP ANHY BAND 895.2.

95.7-01.3-5.8 — 58" SALT -HOT ZONE TRS IMP, 10" SALT VLT ORNG TR K_2O.

01.3-07-5.8 — 28" SALT CLEAR TRS SYLVITE (GOOD-902-903) (BISCUIT-HOT-903.9) 39" SALT 50%.

07-12.6-5.8 — 4" SH 20% SALT, 13" SALT 30% SH, 12"SALT 40% SH, 20" SALT 20% SH, 19" SALT LT ORNG TRS IMP.

12.6-16-3.6 — 42" SALT VLT ORNG TRS IMP SH & ANHY.

CORE SH

876-81.7-5.8 — 8" SALT 10% ORNG IMP, 30" SALT VLT ORNG TRS IMP, 9" SALT 20% SH & ANHY (BISCUIT-HOT 880), 21" SH 30% SALT.

81.7-87.2-5.9	20" SALT 40% SH, 18" SALT 30% SH, 22" SH 30% SALT, 9" SALT 30% SH.
87.2-92.7-5.7	5" SH 40% SALT, 7" SALT 30% SH, 5" SALT 10% SH, 10" SALT 30% SH, 18" SH 30% SALT, 12" SALT 30% SH & ANHY, 10" SALT 10% IMP.
92.7-98.2-5.4	26" SALT 10% SH, 38" SALT VLT ORNG ZONE OF ANHY BANDS A 894.3-A-B, 11" B-C, 4½" C-D, 4½" D-E, 3½" E-F, 4" F-G, 2" HOT ZONE, 896.6-904.9 (BISCUIT-HOT-901.2).
98.2-03.7-5.7	38" SALT TRS IMP, HOT ZONE, 29" SALT VLT ORNG TO WHITE TRS SYLVITE & CARNALITE.
03.7-09.2-5.5	12½" SALT CLEAR TRS SYLVITE (BISCUIT 904.9 HOT-VERY POORLY DEVELOPED V THIN), 31" SALT 50% SH, 15½" SALT 30% SH, 2" SH, 6" SALT 20% SH.

CORE TEST NO. # 26	CYCLE #1 TOTAL THICK-NESS	%	CYCLE #2 TOTAL THICK-NESS	%	CYCLE #3 TOTAL THICK-NESS	%	CYCLE #4 TOTAL THICK-NESS	%	CYCLE #5 TOTAL THICK-NESS	%	SALT-1st DOLO TOTAL THICK-NESS	%	NOTES
INTERVAL													5th Cycle Salt/clastics 2.02 Evap/clastics 2.5 Salt/Evap 4.0
SANDSTONE													
SILTSTONE-SH									103	28.4	57	20.3	
DOLO & LIME									0	0	0	0	
ANHY									51	14.1	15	5.4	
SALT									208	57.5	208	74.3	
TOTAL=									362	100	280	100	

DO NOT REMOVE FROM FILE

ARKLA EXPLORATION COMPANY

Drilling Record

WELL NAME: [illegible]

WELL LOCATION: [illegible]

WELL ELEVATION: 5402 ' K.B.

CONTRACTOR: [illegible]

SPUD DATE: 5-25-65 - 4:00 PM

SIZE HOLE DRILLED: 17½ " to 55 '

TYPE DRILLING FLUID: Gel

SURFACE CASING:
Size 10¾ ", Wt. 32.75 #, No. Sacks Cement 25
Cementing Depth: 52 '

SIZE HOLE DRILLED: 8¾ "

TYPE DRILLING FLUID: FLO SOL (A)

INTERMEDIATE CASING:
Size 5½ ", Wt. 20 #, No. Sacks Cement [illegible] (B)
Cementing Depth 700

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

DRILL STEM TESTS:
None

NO. BITS USED: 2

ELECTRIC LOGS RAN:
Type McCullough Gen from [illegible] ' to 0 '
from ' to '

ABANDONMENT PLUGS:
No. Sacks Cement 100 from [illegible] ' to 625 '
50 from [illegible] ' to 250 '

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

DATE DRILLING RIG RELEASED: 6-4-65 - 2:00 PM

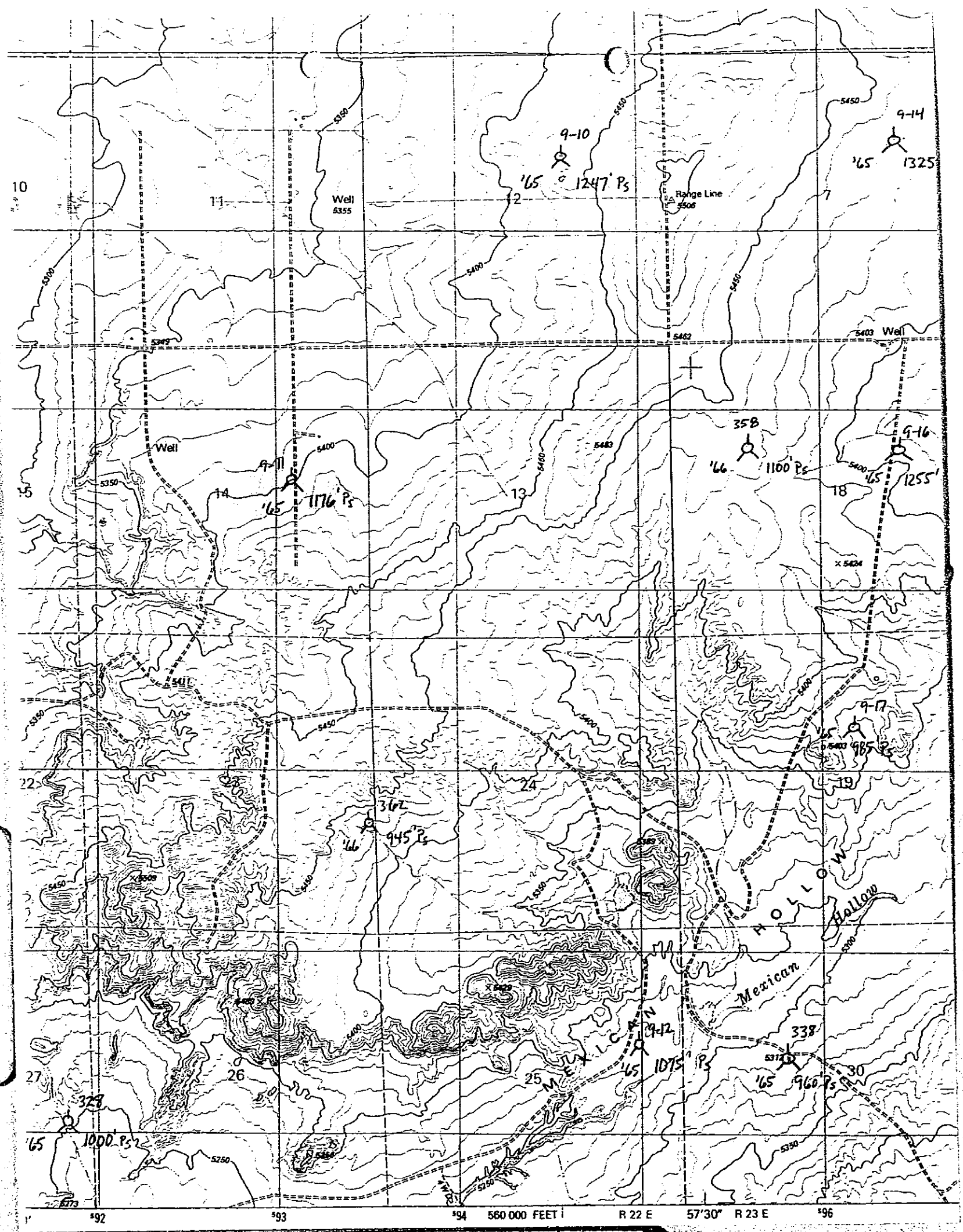
COMPANY REPRESENTATIVE: James S. Baldry

SPECIAL NOTES: Unusual drilling problems encountered, etc.

[illegible] CIRCULATION @ 698' AND LOST MUD WHILE DRILLING TO T[illegible] [illegible] HOLE
[illegible] WITH 125 SACKS LOST RETURNS WHILE CEMENTING RAN [illegible] SUR[illegible]
[illegible] CEMENT @ 500' - REPE AND RAN 50 SACKS - CIRCULATED CEMENT.
(C) SIDE TRACKED HOLE #1 @ 802' AND DRILLED AND CORED TO 916'
SIDE TRACKED HOLE #2 @ 825' AND DRILLED AND CORED TO 926'
STRAIGHT HOLE DRILLED AND CORED TO 1176'

DO NOT REMOVE FROM FILE

9-11


9-10
'65 1247' Ps
9-14
'65 1325
Range Line
Well
Well
Well
9-11
'65 1176' Ps
358
'66 1100' Ps
9-16
'65 1255'
9-17
'65 985' Ps
362
'66 945' Ps
9-12
'65 1075' Ps
338
'65 960' Ps
328
'65 1000' Ps
MEXICAN HOLLOW
Mexican Hollow
10
11
12
7
5
14
13
18
22
24
19
27
26
25
30
5350
5400
5450
5500
5250
5403
5462
5483
5424
5509
5429
5373
R 22 E
57'30"
R 23 E
560 000 FEET

(File # 9-11

SYMBOL OF SERVICE

DO NOT REMOVE FROM FILE

SURVEY REPORT

#26 nmA

EASTMAN OIL WELL SURVEY COMPANY

DIRECTIONAL DRILLING • TOOLS • INSTRUMENTS • TECHNIQUES

Consult The Yellow Pages For Your Nearest Eastman Office

LONG BEACH • HOUSTON • ODESSA

9-11

EASTMAN DIRECTIONAL DRILLING INSTRUMENTATION

"Symbol of Service"

REPORT of SUB-SURFACE DIRECTIONAL SURVEY

ARKLA EXPLORATION COMPANY
COMPANY

N.M.A. CORE TEST NO. 26
WELL NAME

NAVAJO COUNTY, ARIZONA
LOCATION

JOB NUMBER	TYPE OF SURVEY	DATE
WT62965	MAGNETIC MULTISHOT SINGLE SHOT	5-29-65

SURVEY BY
R.B. Vickers

OFFICE
West Texas

FORM D-802 R1

RECORD OF SURVEY

JOB NO. WT 62965 DATE 5-29-65

CHECKED BY

STATION	MEASURED DEPTH		DRIFT ANGLE	TRUE VERTICAL DEPTH		VERTICAL SECTION	COURSE DEVIATION	DRIFT DIRECTION	RECTANGULAR COORDINATES NORTH	SOUTH	EAST	WEST
1	98	00	0 15'	98	00		43	N 77 E	10		42	
2	158	00	0 30'	158	00		52	N 72 E	26		91	
3	218	00	0 30'	218	00		52	N 75 E	39		1 41	
4	278	00	0 15'	278	00		26	S 80 E	34		1 67	
5	338	00	---	338	00		—	Vertical	34		1 67	
6	398	00	0 15'	398	00		26	N 51 W	50		1 47	
7	458	00	0 45'	457	99		79	N 61 W	88		78	
8	518	00	0 15'	517	99		26	N 67 W	98		54	
9	578	00	---	577	99		—	Vertical	98		54	
10	638	00	0 45'	637	98		v 79	N 42 E	1 57		1 87	
11	698	00	1 15'	697	97		1 31	N 86 E	2 75		1 65	
12	758	00	1 00'	757	96		1 05	N 30 E	3 66		2 18	
13	790	00	0 45'	789	96		42	N 34 E	4 01		2 42	

CLOSURE-- 4.68'-- N 31 09' E

FORM NO. D-303P

RECORD OF SURVEY

CHECKED BY JBJ

JOB NO. WT 62965 A DATE 6-4-65

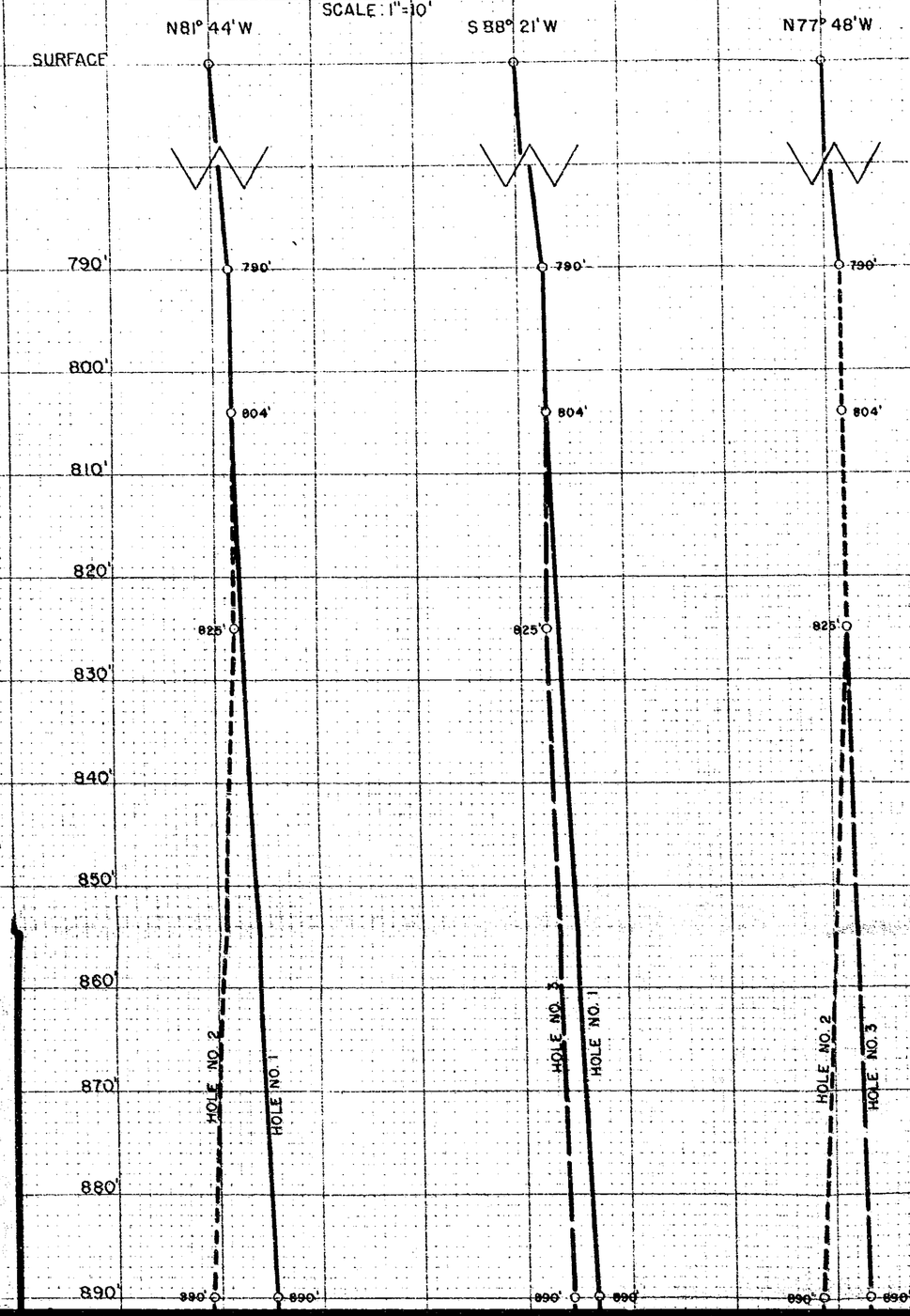
STATION	MEASURED DEPTH	DRIFT ANGLE	TRUE VERTICAL DEPTH	VERTICAL SECTION	COURSE DEVIATION	DRIFT DIRECTION	RECTANGULAR COORDINATES NORTH	SOUTH	EAST	WEST
				HOLE NO. 1 - (DATA FROM M.S. SURVEY)						
-	790 00		789 96		18	N 34 E	4 16		2 52	
1	804 00	0 45'	803 96		3 75	N 76 E	5 07		6 16	
2	890 00	2 30'	889 88		1 41	N 67 E	5 62		7 46	
3	926 00	2 15'	925 85							
				CLOSURE FROM SURFACE TO BOTTOM OF HOLE NO. 1 9.34' NORTH 53° 00' East						
				HOLE NO. 2						
	790 00			DATA FROM M.S. SURVEY			2 01		2 42	
1	804 00	0 45'	803 96		18	N 34 E	4 16		2 52	
2	825 00	0 45'	824 96		27	N 34 E	4 38		2 67	
3	890 00	2 45'	889 00		3 12	N 56 W	6 12		08	
4	916 00	2 45'	915 86		1 25	N 55 W	6 84			00 94
				CLOSURE FROM SURFACE TO BOTTOM OF HOLE NO. 2 6.90' NORTH 7° 50' WEST						
				HOLE NO. #3						
	790 00		789 86	Data From M.S. Survey			4 01		2 42	
1	804 00		803 96		18	N 34 E	4 16		2 52	
2	825 00		824 96		27	N 34 E	4 38		2 67	
3	890 00		889 94		1 70	N 63 E	5 15		4 18	
4	926 00		925 93		94	N 65 E	5 55		5 03	
	CLOSURE BETWEEN HOLES AT 890'					CLOSURE BETWEEN HOLES AT T.D.				
	From 1 to 2 --6.17' N 80 12' W					From 1 to 2 8.49' - N 81 44' W				
	1 to 3 --1.98' S 87 41' W					1 to 3 2.43' - S 88 21' W				
	3 to 2 --4. 21' N 76 41 W					3 to 2 6.11' - N 77 48' W				
				CLOSURE FROM SURFACE TO BOTTOM OF HOLE NO. 3 7.49' NORTH 42° 11' EAST						

FORM NO. D—303F

COMPLETION REPORT

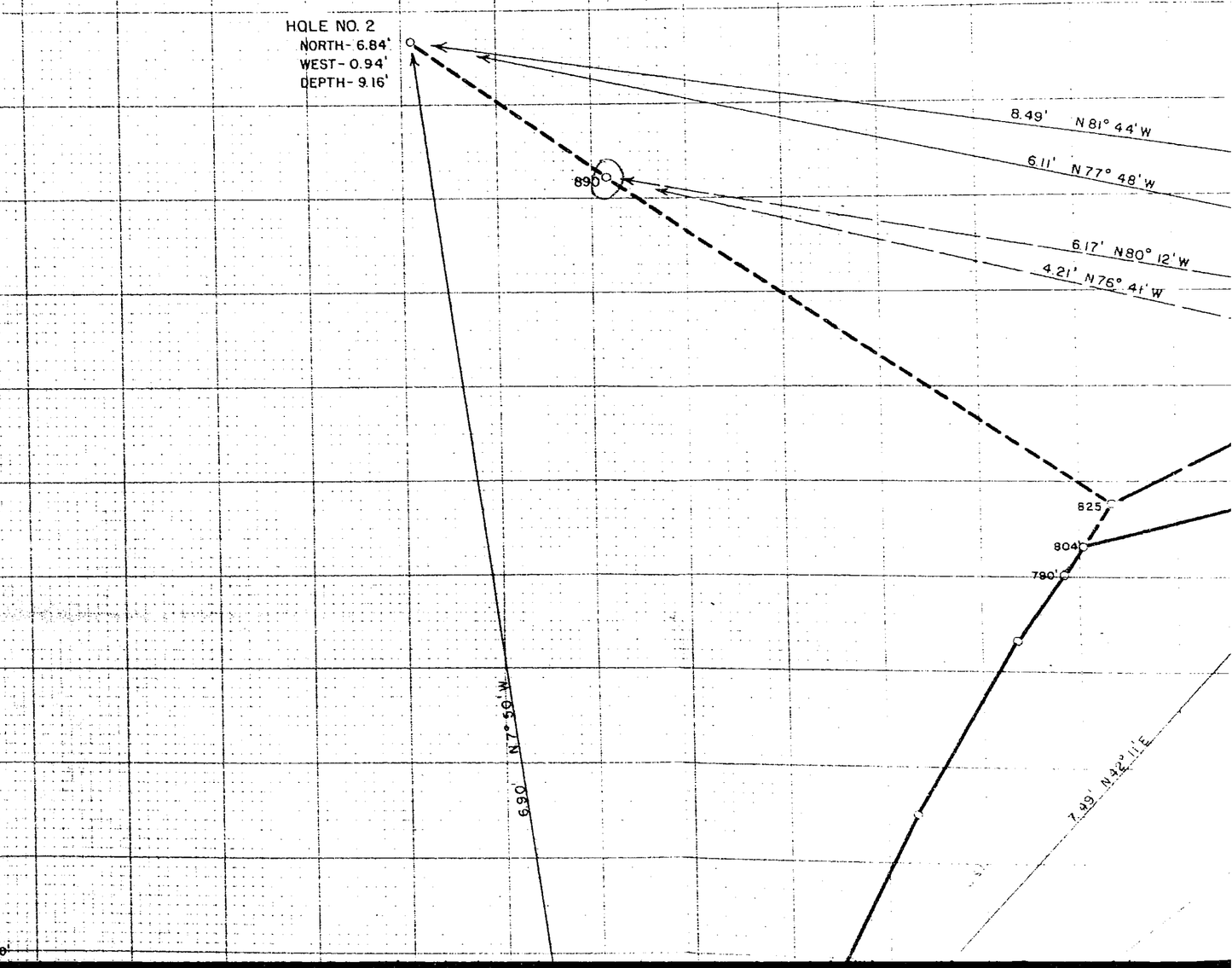
VERTICAL SECTIONS

SCALE: 1"=10'

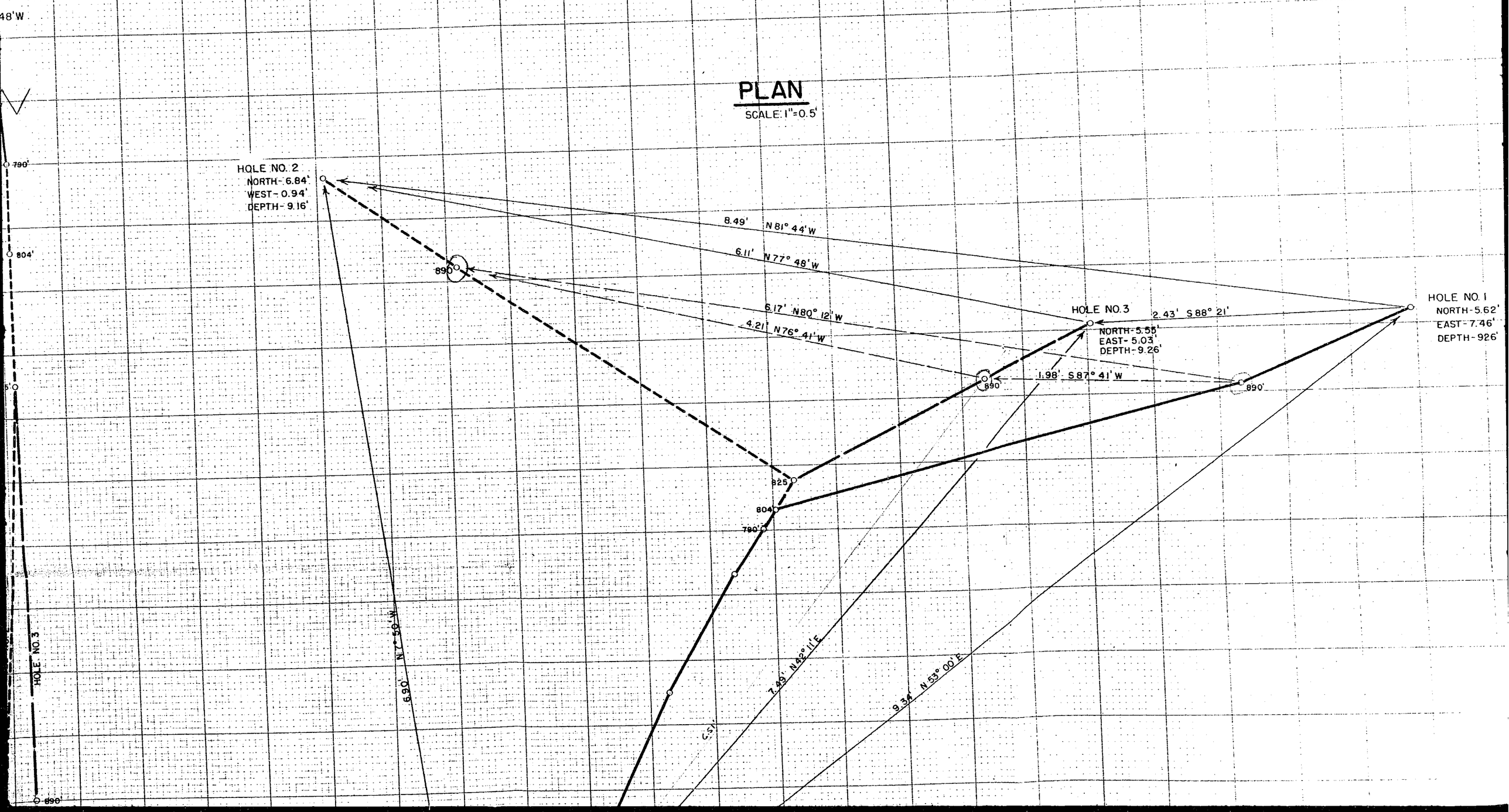


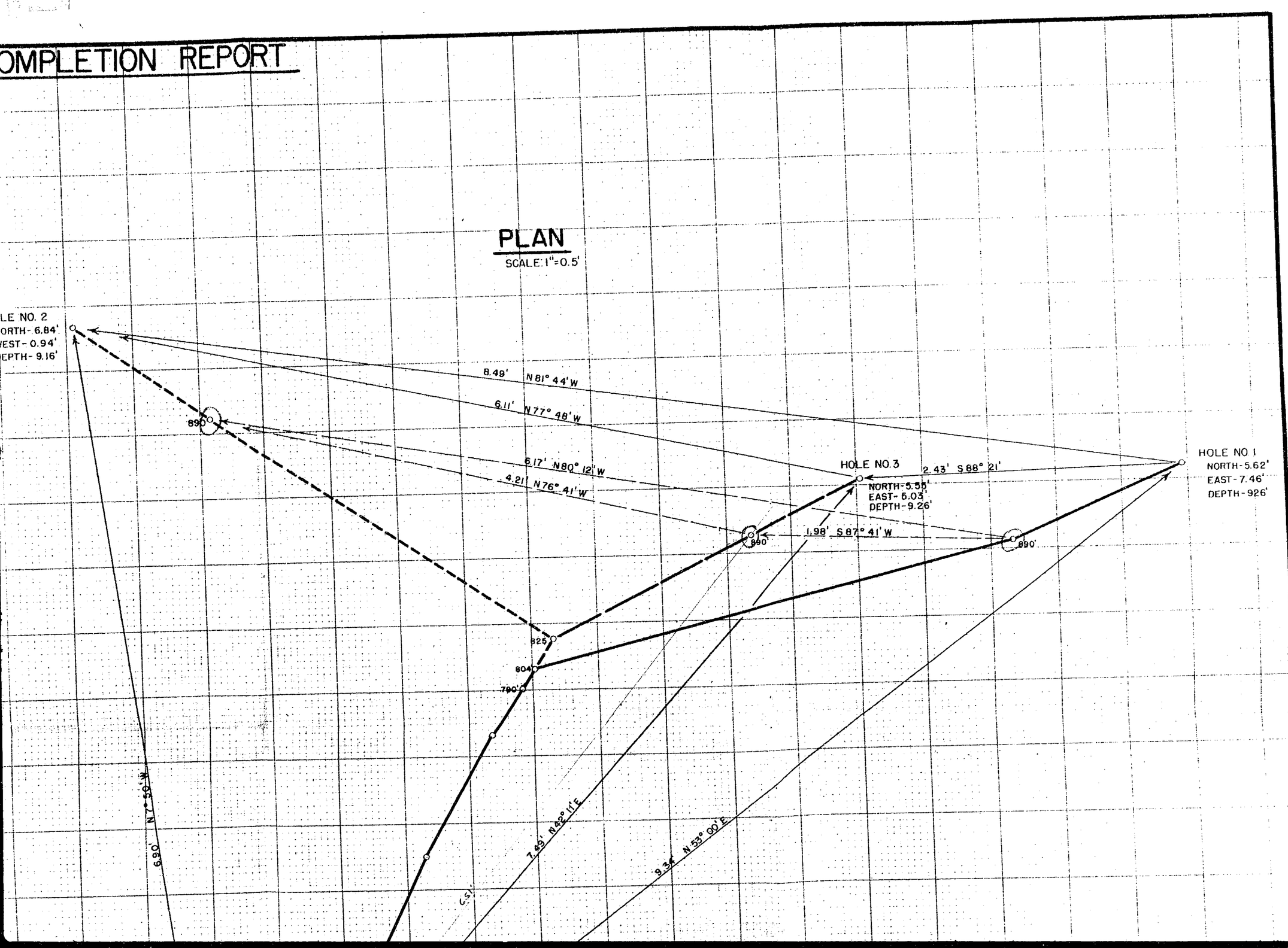
PLAN

SCALE: 1"=0.5'



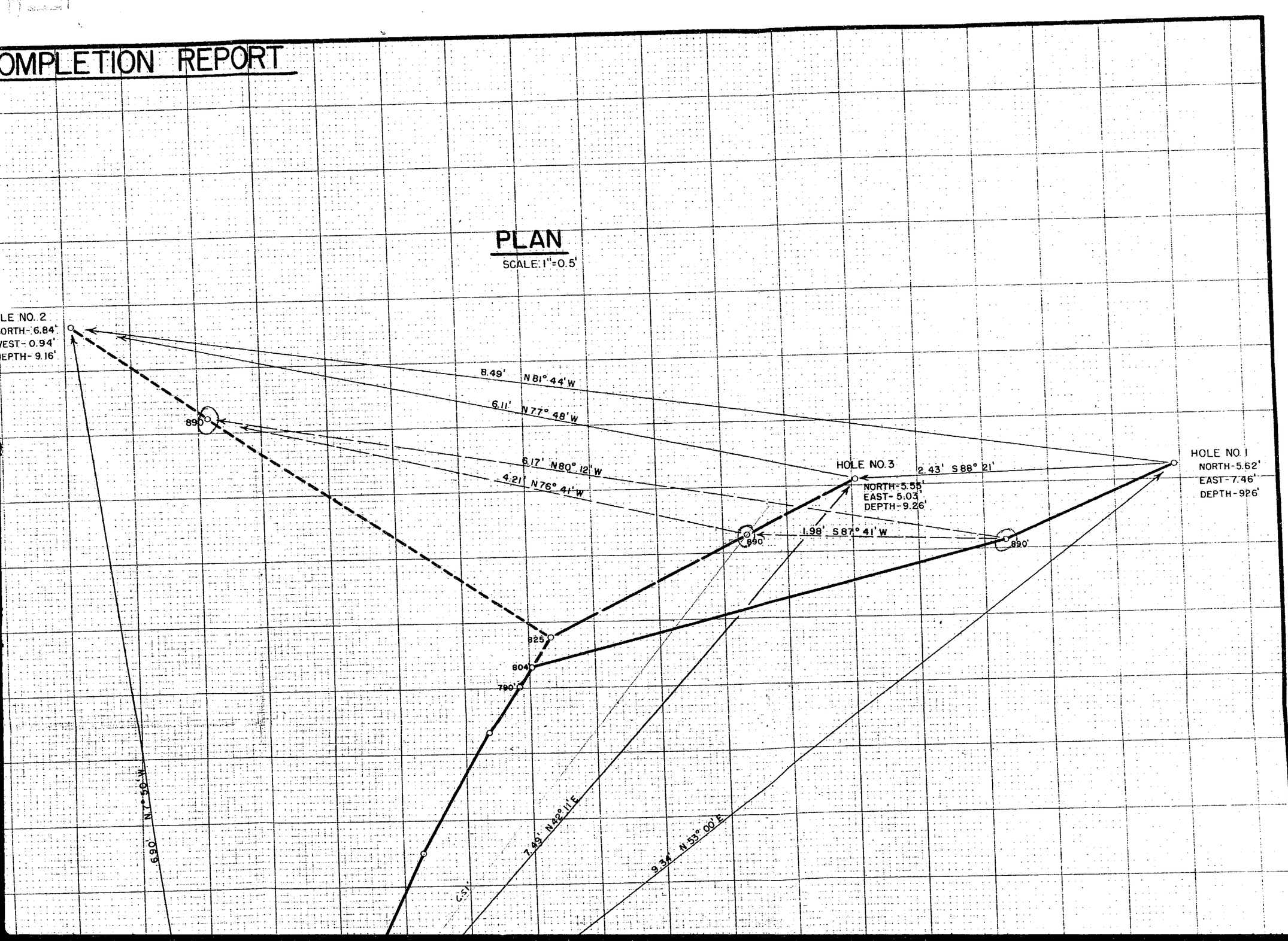
COMPLETION REPORT



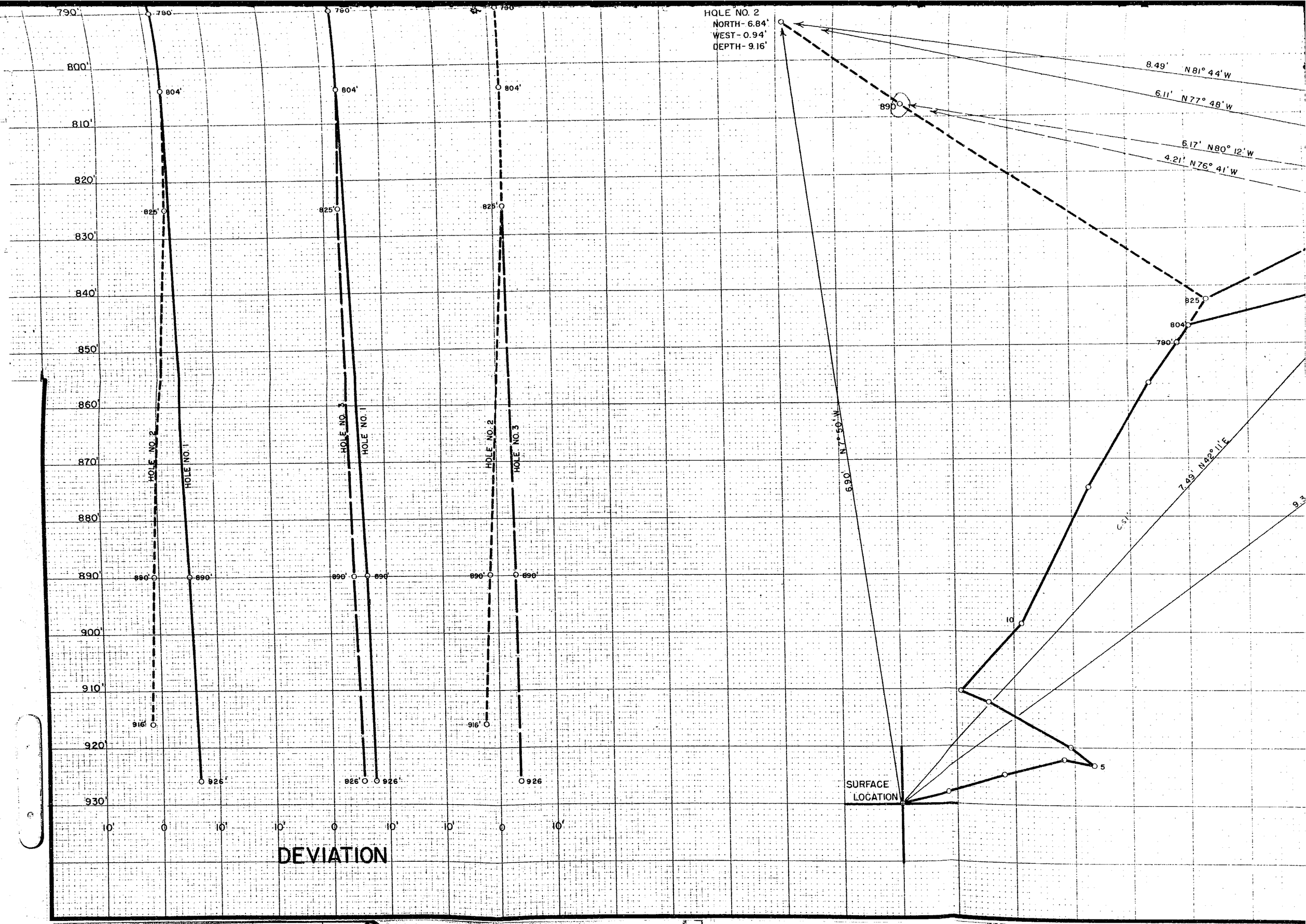


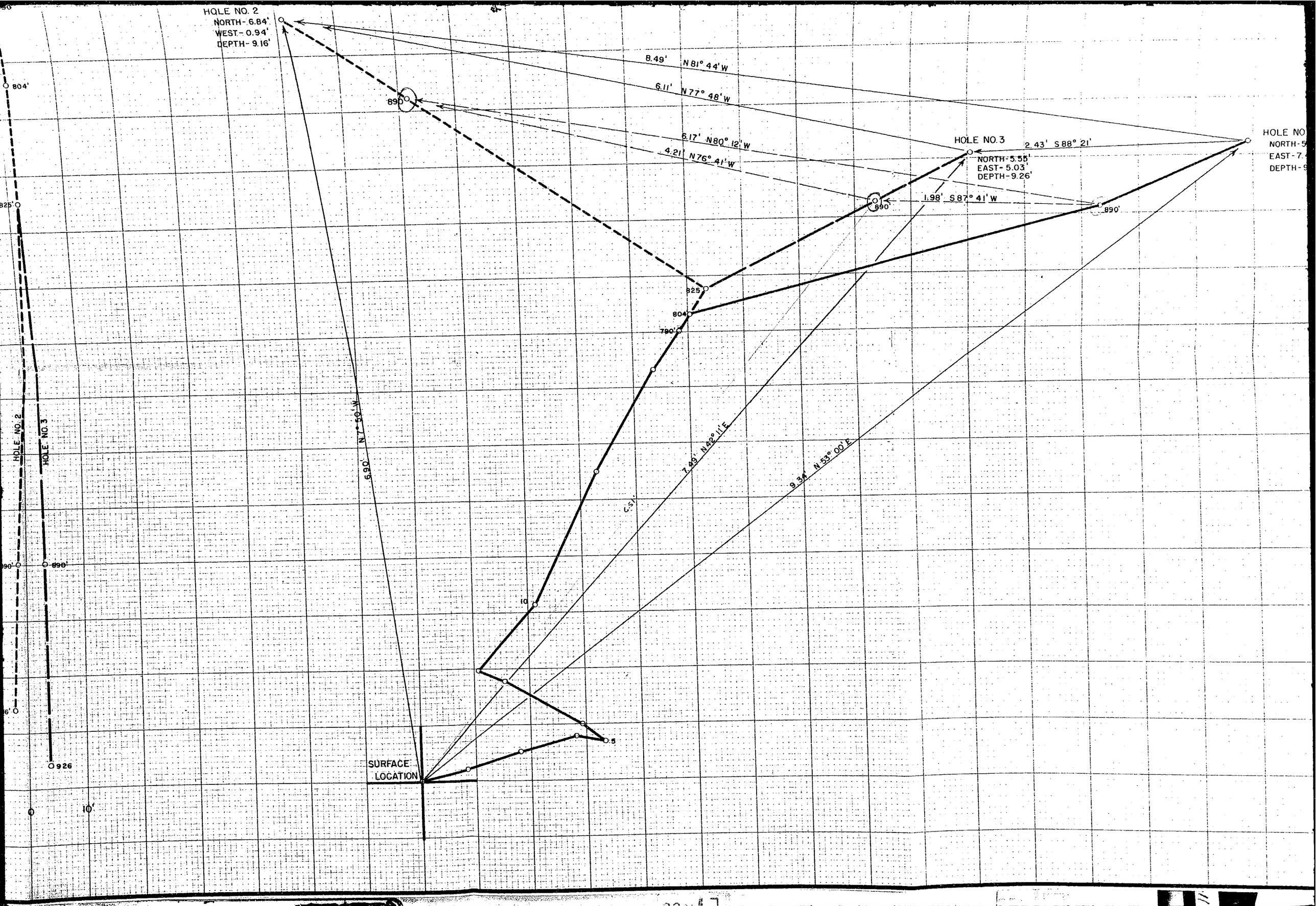
...TON NMA CORE TEST
SW/NE Sec 14-T16N-R22E, Navajo

OMPLETION REPORT

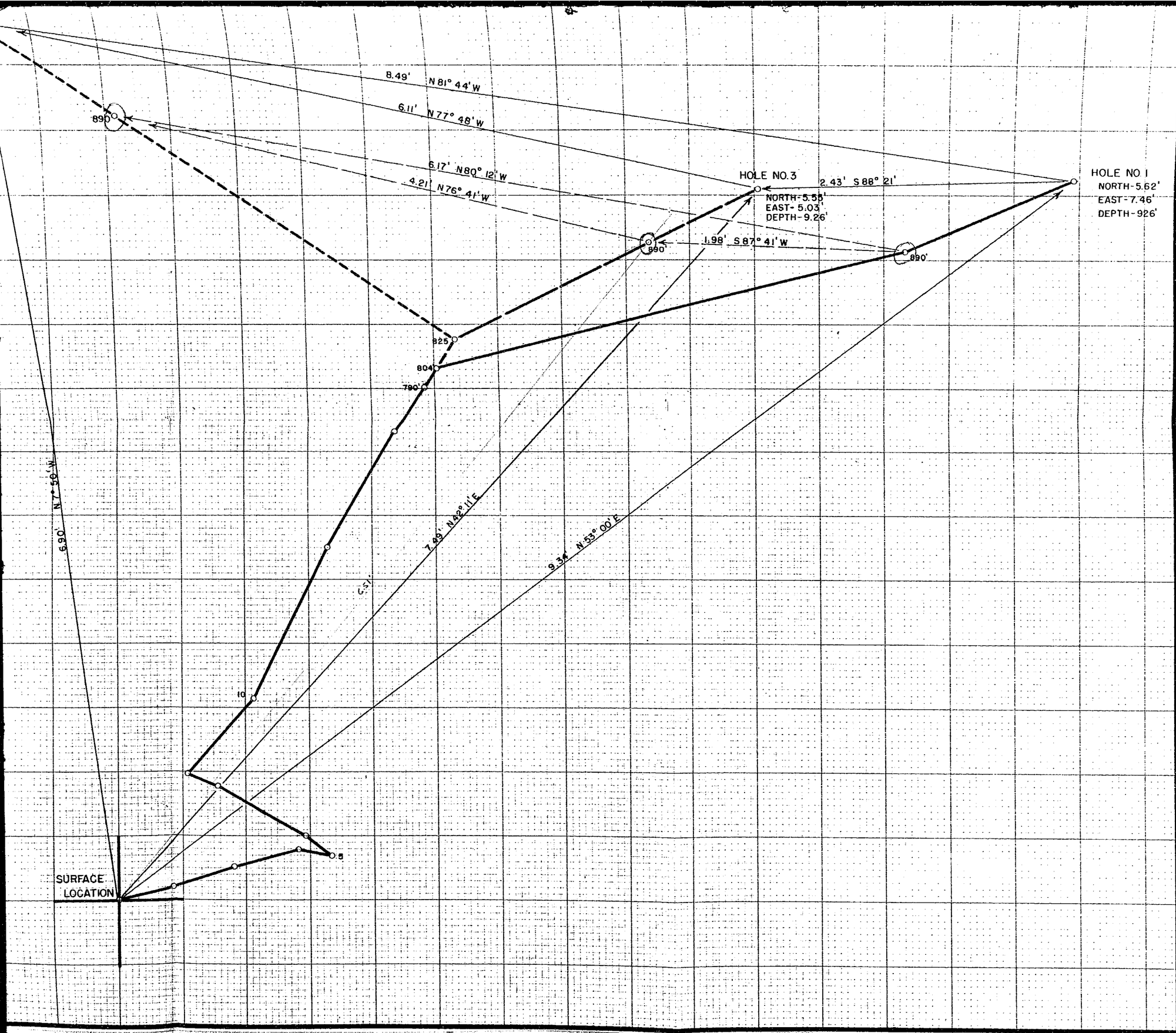


TON NMA CORE TEST
SW/NE Sec 14-T16N-R22E, Navajo


HOLE NO. 2
NORTH- 6.84'
WEST- 0.94'
DEPTH- 9.16'
8.49' N81° 44'W
6.11' N77° 48'W
6.17' N80° 12'W
4.21' N76° 41'W
7.49' N42° 11'E
6.90' N7° 50'W
790'
800'
810'
820'
830'
840'
850'
860'
870'
880'
890'
900'
910'
920'
930'
804'
825'
916'
926'
HOLE NO. 2
HOLE NO. 1
HOLE NO. 3
HOLE NO. 2
HOLE NO. 1
HOLE NO. 3
SURFACE LOCATION
10'
0
DEVIATION



HOLE NO. 2
NORTH- 6.84'
WEST- 0.94'
DEPTH- 9.16'
8.49' N 81° 44' W
6.11' N 77° 48' W
6.17' N 80° 12' W
4.21' N 76° 41' W
HOLE NO. 3
NORTH- 5.55'
EAST- 5.03'
DEPTH- 9.26'
2.43' S 88° 21'
1.98' S 87° 41' W
HOLE NO
NORTH- 5
EAST- 7.
DEPTH- 9
890'
825'
804'
790'
6.90' N 7° 50' W
7.49' N 42° 11' E
9.34' N 53° 00' E
10
5
SURFACE LOCATION
HOLE NO. 2
HOLE NO. 3
890'
926
0
10'



NMA CORE TEST 26
T-116N-R22E, Navajo

November 4, 1965

Arkla Exploration Company
P.O. Box 669
Holbrook, Arizona

Attention: Mr. Ray B. Jones, Landman

Re: Arkla Exploration #26 NMA well
SE/4NE/4 14-16N-22E, Navajo County

Gentlemen:

This will acknowledge receipt of your letter of October 28, 1965.

This is to advise that the properly executed form forwarded by your letter is all that is needed by this Commission for you to turn over the captioned well as a water well.

Very truly yours,

John Bannister
Executive Secretary
mr

9-11

ARKLA EXPLORATION
COMPANY
P.O. BOX 669 - HOLBROOK, ARIZONA

October 28, 1965

The State of Arizona
Oil and Gas Conservation Commission
1624 West Adams, Room 202
Phoenix, Arizona 85007

Attn: Mr. John Bannister

Dear Mr. Bannister,

Enclosed herewith is one Water Well Acceptance Form executed by Frank DoBell accepting over NMA #26 drilled in the SW¼ NE¼ of Section 14, Township 16 North, Range 22 East, Navajo County. There is no Permit number inasmuch as this well was drilled prior to your requiring such permits.

Please advise if this is all that is required in order for us to turn over this well to Mr. DoBell.

Very truly yours
ARKLA EXPLORATION COMPANY

Ray B. Jones

Ray B. Jones
Landman

RBJ/ma
Enclosure

RECEIVED
OCT 29 1965
STATE O & G
CONS. COMM.

To: The State of Arizona
Oil and Gas Conservation Commission
1624 West Adams, Room 202
Phoenix, Arizona 85007

This is to advise you that I accept the abandoned wildcat well, known as the NMA #26

located on the SWNE 1/4-1/4 of Section 14,

Township 16N, Range 22, County of Navajo, Arizona, as a water well to be used for domestic purposes.

Further, I accept full responsibility for the proper maintenance and use of the above well in full compliance with the applicable provisions of Arizona Revised Statutes, and with the Rules and Regulations adopted by the Oil and Gas Conservation Commission. I understand that I am now responsible for the final plugging of this well.

Signature Frank A. DeBell

Street P.O Box 26

City and State Holbrook Ariz

State of Arizona
County of Navajo

On this, the 25th day of October, 19 65, before me, Robert A. Henning, the undersigned officer, personally appeared Frank A. DeBell, known to me (or satisfactorily proven) to be the person whose name is subscribed to the within instrument and acknowledged that he executed the same for the purpose therein contained.

In witness whereof I hereunto set my hand and official seal.

Notary Public Robert A. Henning

My Commission expires November 12, 1965

PERMIT NO. _____

State of Arizona
Oil & Gas Conservation Commission
WATER WELL ACCEPTANCE FORM
Form No. 26 File one copy