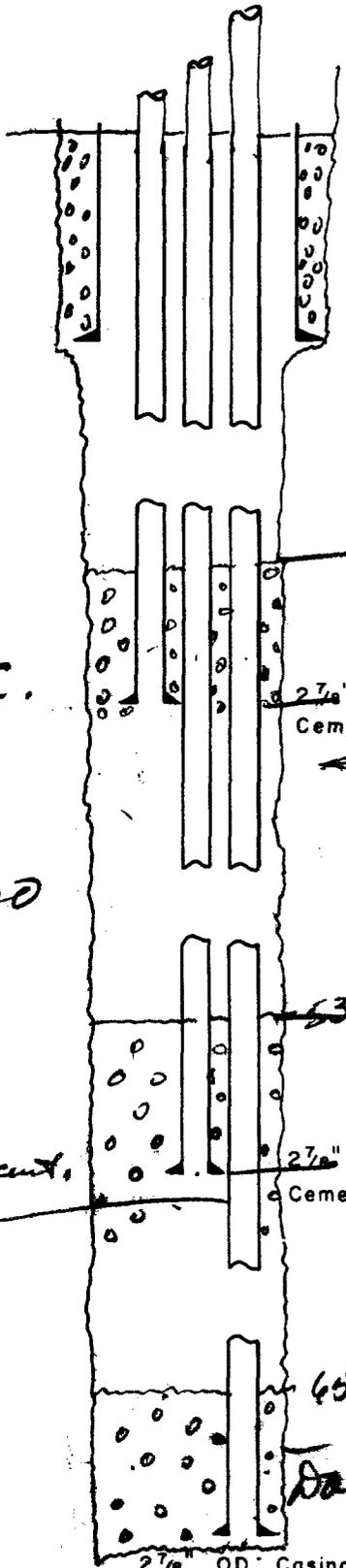


13

ILLEGIBLE



10 3/4" OD Casing at 200',
Cement to surface.

PC: 2500-2550
Ch: 3350-3450

9 7/8 to 3500.
8 3/4 to 5900.
6 3/4 to 7100.

2 7/8" OD Casing at 3100',
Cement to 2500'.

3350-3450

PC or Ch...
Cement - additives
Centrifugers
same as in case -
1/2"

4 PC.
2700
if Ch
3600

5300

5850-5900

bottom cement,
6000

2 7/8" OD Casing at 5900',
Cement to 5300'.

Gallup

6500

DIAGRAMATIC SKETCH OF PROPOSED
TRIPLE COMPLETION FOR JICARILLA
WELL # 1-4

Dak 6850-7100 Dak.

2 7/8" OD Casing at 7100',
Cement to 6500'

JOHNSTON AND SHEAR
ALBUQUERQUE, NEW MEXICO

APPLICATION FOR TRIPLE COMPLETION
OF JICARILLA WELL # 1-4, IN
PICTURED CLIFFS, GALLUP & DAKOTA
FORMATIONS

RIO ARRIBA COUNTY
NEW MEXICO

JICARILLA
CONTRACT # 10

Drawn: W.H. McGohey
Approved: R. Phillips

Scale: 400' = 1"
Date: 2-3-60

BEFORE EXAMINER UTZ
OIL CONSERVATION COMMISSION
Appl EXHIBIT NO. 2
CASE NO. 1911

OIL CONSERVATION COMMISSION

P. O. BOX 871

SANTA FE, NEW MEXICO

March 11, 1960

Mr. Burns Errebo
P. O. Box 466
Albuquerque, New Mexico

Dear Mr. Errebo:

On behalf of your client, Johnston and Shear,
we enclose two copies of Order R-1629 in Case
1911, issued by the Oil Conservation Commission
this date.

Very truly yours,

A. L. PORTER, Jr.
Secretary-Director

ir/

Enclosures: (2)

ccc
Porter
Director

C
O
P
Y

Case 131

NUCLEAR ORIENTOR JOB REPORT

Operating Base: OKla. City

Prepared By: D. S. McHee

Customer: Carter Oil Co.

Date: 1/9/59

Field: No. Dover

Well: C.H. Moery #1

Bore Hole Size: 7 7/8"

Casing Size & Wt.: 2 7/8" 6 1/2#

No. of Strings: Two

Depth of Each: 7254 & 6573'

Total Depth: 7254'

Gun Type and Size: 1 7/8" Sidewinder

Shooting Zone: 6490' to 6509'

Number Perforations: 24

No. Sinker Bars Run: None on 1st run

Running Speed: Approx. 100 ft/min

One on 2nd run

Sensitivity:

Time Constant:

Casing Collars:

Type Cam Rack (Check one): No. One Reverb Rod #1 No. Two _____

#1 with offset pawl

Ring Dia. of Friction Springs on Cam Rack: 3" Centralizer: 2 1/2"

No. Rotations to obtain 360°: 14 on 1st run; didn't go thru complete cycle on second run.

(Attach a copy of log with position well was shot noted on it.)

Remarks: (Include anything unusual such as suspected position of casing in the well, how the casing was run, strapped together or individual, trouble, etc.)

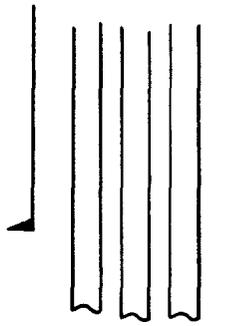
Casing was run individually.

Both strings of casing were filled with fresh water

customer representatives: John Daly

Pete Chambers

Paul McDaniel

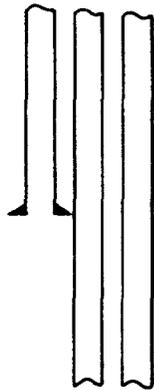


10 3/4" OD Casing at 200'
Cement to surface.

Ojo Alamo

2450-2500 core P.C.

*2500
2 7/8 hole*



2 7/8" OD Casing at 3100',
Cement to 2500'.

Corral Chica

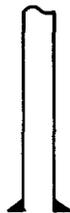
MV-



*5300
5550-5900*

2 7/8" OD Casing at 5900', 4 3/4 hole
Cement to 5300'

*Greenhorn
6500
600 above top Perf.
6 7/8 hole*

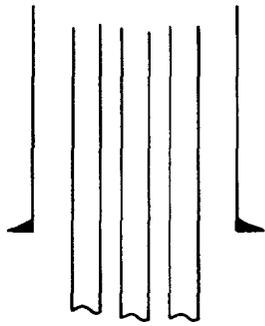


2 7/8" OD Casing at 7100',
Cement to 6500'.

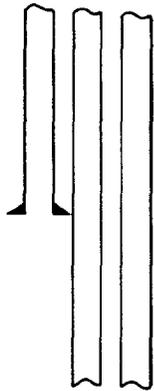
DIAGRAMATIC SKETCH OF PROPOSED
TRIPLE COMPLETION FOR JICARILLA
WELL # 1-4

ILLEGIBLE

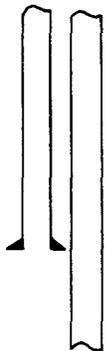
JOHNSTON AND SHEAR ALBUQUERQUE, NEW MEXICO	
APPLICATION FOR TRIPLE COMPLETION OF JICARILLA WELL # 1-4, IN PICTURED CLIFFS, GALLUP & DAKOTA FORMATIONS	
RIO ARriba COUNTY NEW MEXICO	JICARILLA CONTRACT # 10
Drawn: W.H. McGahey	Scale: 400' = 1"
Approved: R. Phillips	Date: 2-3-60



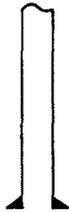
10³/₄" OD Casing at 200',
Cement to surface.



2⁷/₈" OD Casing at 3100',
Cement to 2500'.



2⁷/₈" OD Casing at 5900',
Cement to 5300'.



2⁷/₈" OD Casing at 7100',
Cement to 6500'.

DIAGRAMATIC SKETCH OF PROPOSED
TRIPLE COMPLETION FOR JICARILLA
WELL # 1-4

JOHNSTON AND SHEAR
ALBUQUERQUE, NEW MEXICO

APPLICATION FOR TRIPLE COMPLETION
OF JICARILLA WELL # 1-4, IN
PICTURED CLIFFS, GALLUP & DAKOTA
FORMATIONS

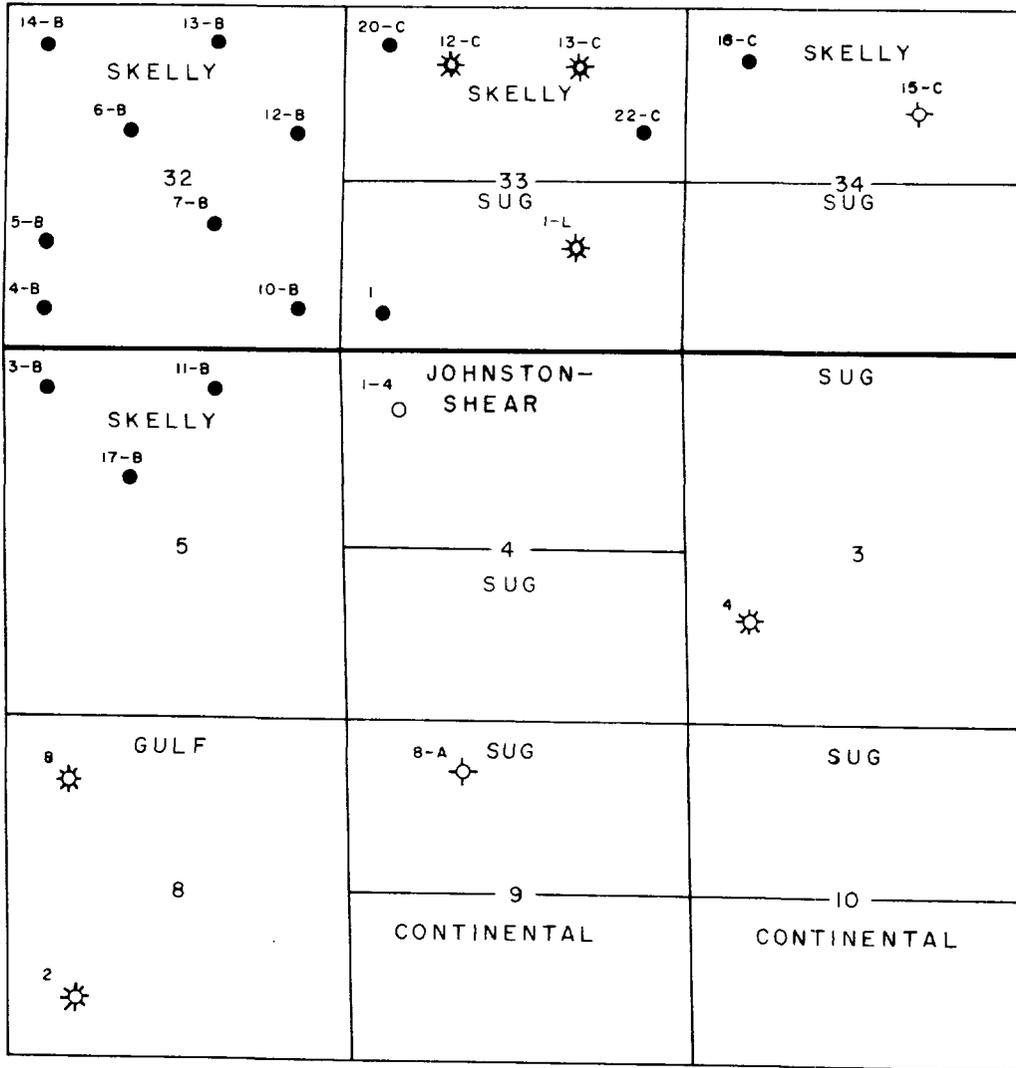
RIO ARRIBA COUNTY
NEW MEXICO

JICARILLA
CONTRACT # 10

Drawn: W.H. McGahey
Approved: R. Phillips

Scale: 400' = 1"
Date: 2-3-60

R 5 W



T
25
N

T
24
N

LOCATION AND OWNERSHIP PLAT FOR
FOR JICARILLA WELL # 1-4 IN
SEC. 4, T 24 N - R 5 W

JOHNSTON AND SHEAR
ALBUQUERQUE, NEW MEXICO

APPLICATION FOR TRIPLE COMPLETION
OF JICARILLA WELL # 1-4, IN
NW/4 NW/4 SEC. 4, T 24 N - R 5 W

RIO ARriba COUNTY
NEW MEXICO

JICARILLA
CONTRACT # 10

Drawn: W.H. McGahey

Scale: 1" = 3000

Approved: R. Phillips

Date: 2-3-60



SKELLY OIL COMPANY

TULSA, OKLAHOMA

February 15, 1960

PRODUCTION DEPARTMENT
C. L. BLACKSHER, VICE PRESIDENT
W. P. WHITMORE, GENERAL MANAGER

Case No. 1911.
Hearing: February 25, 1960

Johnston and Shear
Aspen Drilling Company
3010 Monte Vista Blvd., N.E.
Albuquerque, New Mexico

Gentlemen:

This is to advise that we have no objection to your proposed Multiple Zone "Slim Hole" Completion for your Jicarilla Well No. 1-4, located in the NW/4 of Section 4, Township 24N, Range 5W, Rio Arriba County, New Mexico, which will offset Skelly's Jicarilla "B" Lease. In looking over your proposal, we note that you will cement surface casing at 200' to surface; the casing at 3100' with cement to 2500'; casing at 5900' with cement to 5300'; and casing at 7100' with cement to 6500'. It is our suggestion that the Commission should require you to cover both the Pictured Cliffs and Chacra Zones with cement when cementing the casing, and we presume that your proposal will do this.

Yours very truly,

(Signed) GEORGE W. SELINGER

George W. Selinger

GWS/gl

cc: Oil Conservation Commission
State of New Mexico
Post Office Box 871
Santa Fe, New Mexico

Mr. P. E. Cospers



COLLAR LOCATOR

Locates collars and records them at the surface to insure correct depth for perforating operation.

NUCLEAR ORIENTOR *

Scans the well bore in the zone of interest and records at the surface the location of adjacent strings of casing. Confirms final positioning of perforator prior to shooting.

ROTATOR

Turns the Orientor and Perforator assembly in the zone of interest. Operated by raising or lowering the tool. Friction springs anchor the Rotator in the casing.

PERFORATOR

Any small diameter gun suitable for the application may be used. Lane-Wells offers a complete line of the deepest penetrating, small diameter guns available.

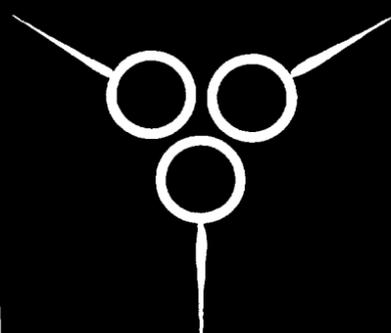
*Trademark of Lane-Wells Company.

For more information about Directional Perforating ask your Lane-Wells representative or write to:



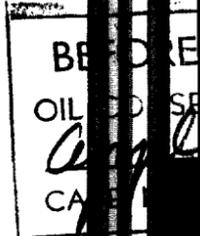
A Division of Dresser Industries, Inc.

P. O. BOX 1407
HOUSTON 1, TEXAS

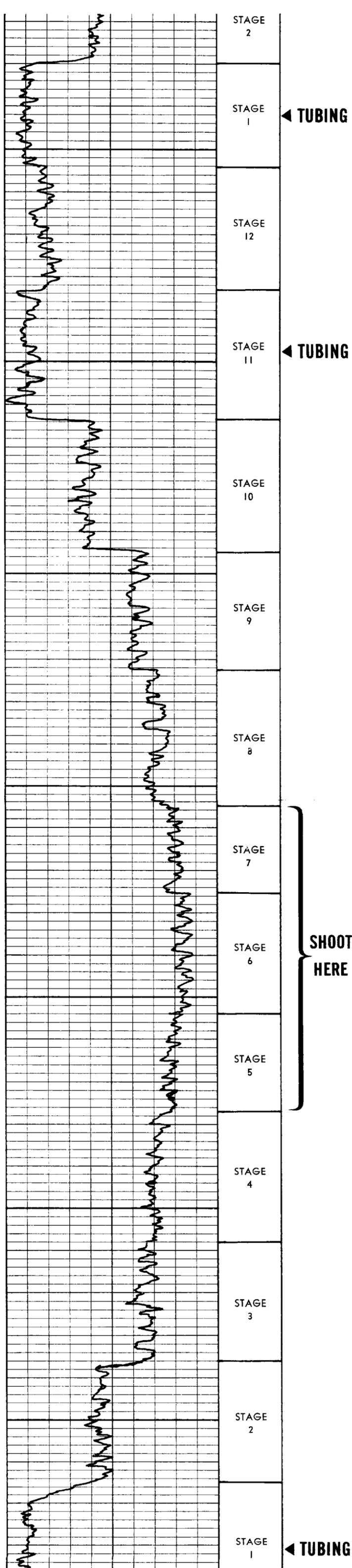


HERE

SHOOT



**... POSITIVE,
PERFORATING
FOR
MULTIPLE
STRING
COMPLETIONS**



Lane-Wells Directional Perforator makes it possible to perforate a single string in a multiple string, tubingless completion on a single run in the well. This combination device locates collars to insure correct depth of perforations, locates the other strings of casing at the shooting depth, orients the perforator to perforate away from the other strings, and perforates the desired zone all on one run.

Run by a standard Lane-Wells perforating-logging unit on a standard conductor line the Directional Perforator consists of a Collar Locator, a Nuclear Orientor, a Rotator, and a Perforator. A surface recorder records the location of collars and the location of other casing strings. The entire operation is conducted only in the casing to be perforated. No radioactive substances are injected or mechanical device placed in any other casing strings. The other strings are not disturbed in any way and can be kept on production, if desired, during the entire operation.

The Collar Locator picks collars on the trip into the well. When the zone of interest is reached, the Nuclear Orientor scans the zone to locate the position of the other casing strings. This scanning is carried out in stages during which the Orientor indicates the presence or absence of casing in a narrow zone immediately in front of the gun. These indications are recorded visually at the surface.

At the completion of the scanning of a stage, the Orientor and Perforator are rotated to the next stage. This is done by raising or lowering the tool. Only three inches of travel up or down the hole is required for the Rotator to move the Orientor to the next scanning stage.

The scanning by stages operation is continued around the pipe for at least two complete revolutions. This insures a double check of the location of the other casing strings in relation to the string to be perforated. The Perforator is then positioned positively by the same Rotator to shoot only in the safe zone away from the other strings. This positioning is double checked with the Nuclear Orientor before firing.