



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

BRUCE KING
GOVERNOR

LARRY KEHOE
SECRETARY

December 7, 1979

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501
(505) 827-2434

Orville Slaughter & Associates
2626 Adams Street
Denver, Colorado 80205

Administrative Order NSL-1126

Gentlemen:

Reference is made to your application for a non-standard location for your Sangre De Cristo Well No. ~~A-2S~~ to be located 670 feet from the North line and 580 feet from the West line of Section 34, Township 30 North, Range 11 West, NMPM, Undesignated Fruitland Pool, San Juan County, New Mexico.

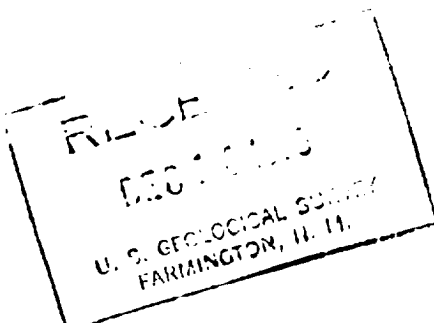
By authority granted me under the provisions of Rule 104 F, the above-described unorthodox location is hereby approved.

Sincerely,

JOE D. RAMEY,
Director

JDR/RLS/dr

cc: Oil Conservation Division - Aztec
Oil & Gas Engineering Committee - Hobbs
U. S. Geological Survey - Farmington





STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

12-1
12-2
12-3
12-4
12-5
12-6
12-7
12-8
12-9
12-10
12-11
12-12
12-13
12-14
12-15
12-16
12-17
12-18
12-19
12-20
12-21
12-22
12-23
12-24
12-25
12-26
12-27
12-28
12-29
12-30
12-31
12-32
12-33
12-34
12-35
12-36
12-37
12-38
12-39
12-40
12-41
12-42
12-43
12-44
12-45
12-46
12-47
12-48
12-49
12-50
12-51
12-52
12-53
12-54
12-55
12-56
12-57
12-58
12-59
12-60
12-61
12-62
12-63
12-64
12-65
12-66
12-67
12-68
12-69
12-70
12-71
12-72
12-73
12-74
12-75
12-76
12-77
12-78
12-79
12-80
12-81
12-82
12-83
12-84
12-85
12-86
12-87
12-88
12-89
12-90
12-91
12-92
12-93
12-94
12-95
12-96
12-97
12-98
12-99
12-100

BRUCE KING
GOVERNOR
LARRY KEHOE
SECRETARY

December 7, 1979

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501
(505) 827-2434

Orville Slaughter & Associates
2626 Adams Street
Denver, Colorado 80205

Administrative Order NSL-1126

Gentlemen:

Reference is made to your application for a non-standard location for your Sangre De Cristo Well No. 4 to be located 670 feet from the North line and 580 feet from the West line of Section 34, Township 30 North, Range 11 West, NMPM, Undesignated Fruitland Pool, San Juan County, New Mexico.

By authority granted me under the provisions of Rule 104 F, the above-described unorthodox location is hereby approved.

Sincerely,

JOE D. RAMEY,
Director

JDR/RLS/dr

cc: Oil Conservation Division - Aztec
Oil & Gas Engineering Committee - Hobbs
U. S. Geological Survey - Farmington



OIL CONSERVATION COMMISSION
Albuquerque DISTRICT

OIL CONSERVATION COMMISSION
BOX 2088
SANTA FE, NEW MEXICO

DATE 12-10-79

RE: Proposed MC _____
Proposed DHC _____
Proposed NSL ✓ _____
Proposed SWD _____
Proposed WFX _____
Proposed PMX _____

Gentlemen:

I have examined the application dated 11-28-79
for the Orville J. Slaughter Sangre De Cristo #4
Operator Lease and Well No. Unit, S-T-R
and my recommendations are as follows: D-34-30N-11W

Approve

Yours very truly,

Albuquerque

November 28, 1979

Orville Slaughter
2626 Adams Street

New Mexico Oil Conservation Commission
P. O. Box 2088
Santa Fe, New Mexico 87501

Subject: Request for Administration Approval
of Non-Standard Location

Gentlemen:

It was our desire to drill an undesignated Fruitland re-entry well at a point 670' FNL and 580' FWL of Section 34, T30N, R11W. We considered this the most desirable standard location due to the close proximity of the Sangre De Cristo No. 2 located 990' FWL and 800' FNL of Section 34, T30N, R11W and which has been a very successful undesignated Fruitland well.

Since this is a re-entry to an existing well, considerable time, money and energy will be saved, helping to increase our national energy program by expending less natural resources to obtain a production well. (See attached drilling plan and archaeological clearance survey).

There are no other points within the NW 1/4 of Section 34 where the topography is suitable to drill No. 2, because of deep canyons which would require considerable work and expense to build a location along with additional expense to maintain and operate the well. We are requesting administrative approval of a location 670' FNL and 580' FWL of Section 34, T30N, R11W, which is more suitable terrain for drilling and operating. Due to geological conditions, we believe a well drilled at any other point would result in a poor producing well.

Since a comparison of the well logs on the Murphy No. 2-E and the Sangre De Cristo No. 2 indicates that the undesignated Fruitland formation geologic conditions for producing gas are much better in the Sangre De Cristo No. 2 well, we believe a better producing well can be drilled at the non-standard location in the NW 1/4 of Section 34, closer to the Sangre De Cristo No. 2 well.

El Paso Natural Gas Company operated all off-set wells to the non-standard location and has been sent thru the U.S. Postal Service a certified copy of this proposal mailed this 28th day of November, 1979.

In order for you to better consider this request, we are enclosing copies of the Fruitland section of the well logs on the Murphy #2-E, the Sangre De Cristo #2, and a topographic map of the area.

Sincerely,

A handwritten signature in cursive script, appearing to read "Orville Slaughter".

Orville Slaughter,
Operator

OS/fg
Encs.

All distances must be from the center to corners of the section

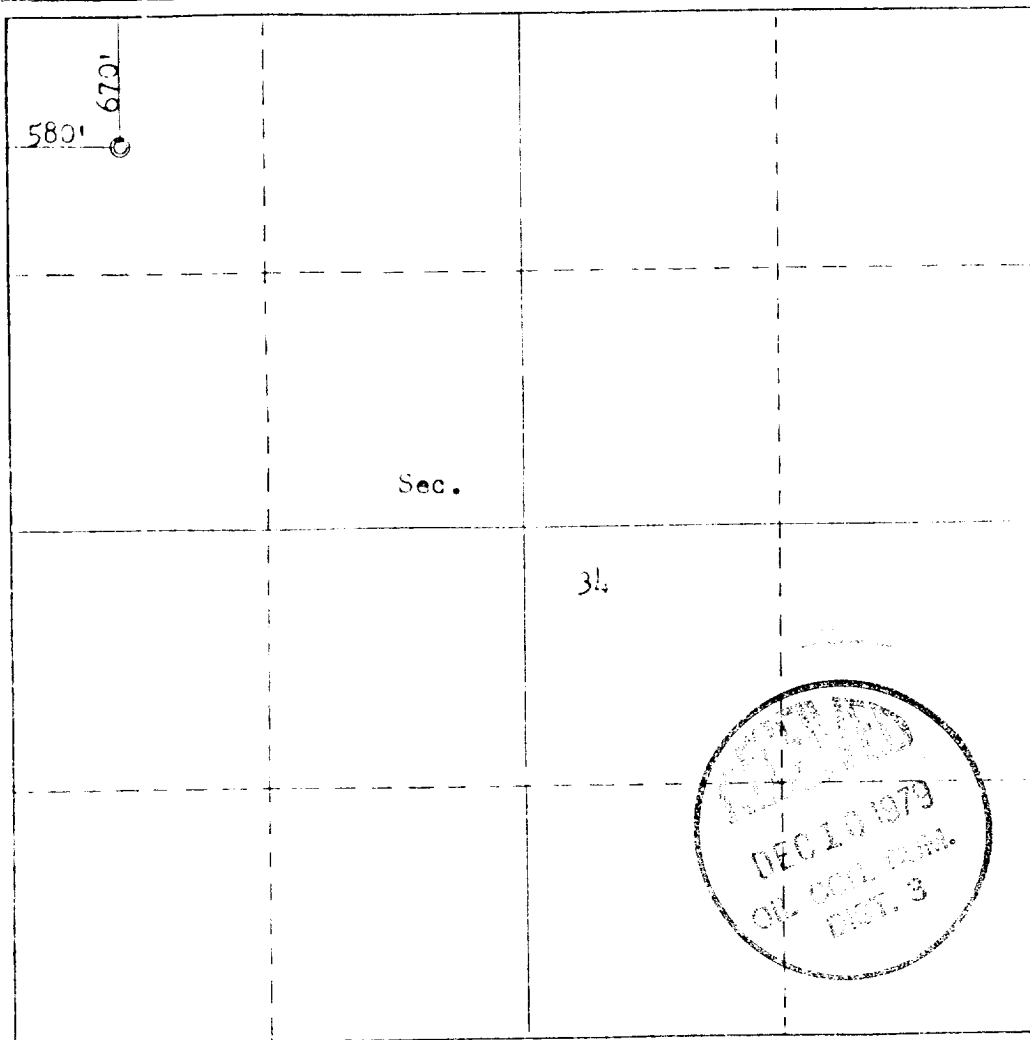
Operator ORVILLE SLAUGHTER & ASSOCIATES			Lease SANRE DE CRISTO		Well No. 4
Tract Letter D	Section 34	Township 30N	Range 11W	County San Juan	
Actual Footage Location of Well:					
670	feet from the	North	line and	580	feet from the
Ground Level Elev. 5900	Producing Formation		Feet	Producing Formation	

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief

Orville Slaughter
Operator

12 Nov 1979

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Investigated
November 12, 1979
By State Engineer
and/or Land Surveyor
Fred B. Kerr Jr.
Fred B. Kerr Jr.
3950

1. Location: 580' FWL, 670' FHL Section 34, T-30-11W, San Juan County, N.M.

Field: Undesignated Fruitland

II. Geology:

A. Formation Tops:	Surface	San Jose
	Ojo Alamo	415'
	Kirkland	420'
	Farmington	515'
	Fruitland	1585'
	Total Depth	2057'

B. Logging Program: Induction Electric and TWT Gamma Ray at TD.

C. Coring: None

D. Samples: None

III. Drilling:

A. Mud Program: Mud from 1500' to Total Depth. Clean out existing hole to TD 1500'. Deepen hole to 2057'.

A. Casing Program:

IV. Materials:

A. Casing Program:	Hole Size	Depth	Ann. Lin.	Wt. & Kind
	10 1/2"	100'	8 1/2"	12.1 lb 1-16
	8 7/8"	1500'	4 1/2"	10.1 lb 1-16
	8 1/8"	2057'	2 7/8"	8.4 lb 1-16

B. Float Equipment: 2 1/8" Frequenton Chasing - Heavy grade w/ mud seal-off inner valve, also one on bottom on the 3rd joint from bottom.

C. Tstring: 2057' of 2 1/8" small coupling tubing with 1 pump setting nipple and an expendable check valve w/ drill type guide.

D. Wellhead Equipment: 10" 1000 x 8 5/8" WKM Brewster Type 1 Casing Head with 10" x 2 7/8 Type 3A Casing Hammer will be used.

V. Remarks:

As they say, this well is a re-entry thru existing casing.

Production Casing -

2 7/8" production casing will be run inside 4 1/2" existing casing and cemented 100 sacks of 64/200 class "B" lean mix slurry of port and 2% calcium chloride mixed with 8.5 gallons water per sack and over displaced to surface with water.



An Archaeological Clearance Survey of
Three Proposed Well Locations & Access Roads
Conducted for Orville Slaughter & Associates

Dabney Ford

Sangre De Cristo #4
Sangre De Cristo #5
Sangre De Cristo #6

Report 79-SJC-327
of the
Cultural Resource Management Program
San Juan Campus
New Mexico State University

15 November 1979

Report 79-SJC-327
Permit 80-NM-004

An Archaeological Clearance Survey of
Three Proposed Well Locations & Access Roads
Conducted for Orville Slaughter & Associates

Dabney Ford
Cultural Resource Management
San Juan Campus
New Mexico State University

15 November 1979

Report 79-SJC-327
of the
Cultural Resource Management Program
San Juan Campus
New Mexico State University

15 November 1979

An Archaeological Clearance Survey of
Three Proposed Well Locations & Access Roads
Conducted for Orville Slaughter & Associates

On 15 November 1979, Dabney Ford from the Cultural Resource Management Program, New Mexico State University, San Juan Campus, conducted an archaeological clearance survey of three proposed well locations and access roads at the request of Mr. Orville Slaughter. Mr. Slaughter was present during the inspection of the wells which are on Public Lands administered by the Bureau of Land Management and were surveyed under Federal Antiquities permit 80-NM-004.

METHODOLOGY

Each well location was surveyed by walking parallel transects, 75 feet apart, over the 150 x 150 foot easements. The access roads were inspected by walking the routes from existing roads or wells to the proposed locations.

GENERAL RECOMMENDATIONS

No cultural resources were found and full archaeological clearance is recommended.

Proposed Well: O.S. & A. - SANGRE DE CRISTO #4

Land Status: Bureau of Land Management.

Location: The location is in the SW $\frac{1}{4}$ of the NW $\frac{1}{4}$ of the NW $\frac{1}{4}$ of Section 34, Township 30 North, Range 11 West, N.M.P.M., San Juan County, New Mexico. The well will be 670 feet from the north line and 580 feet from the west line of Section 34. (Figure 1)

Access: 300 feet long and 20 feet wide approaching the well from the south.

Area Surveyed: 0.50 acres.

Terrain: Broken mesa slope/badlands with easterly drainage, alluvial surface deposits, and sandstone outcrops.

Soil: Sandy clay.

Vegetation: Juniper, pinon, narrowleaf yucca, bitterbrush, galleta, snakeweed, indian ricegrass, rabbitbrush, prickly pear.

Cultural Resources: None found.

Recommendations: Clearance recommended.

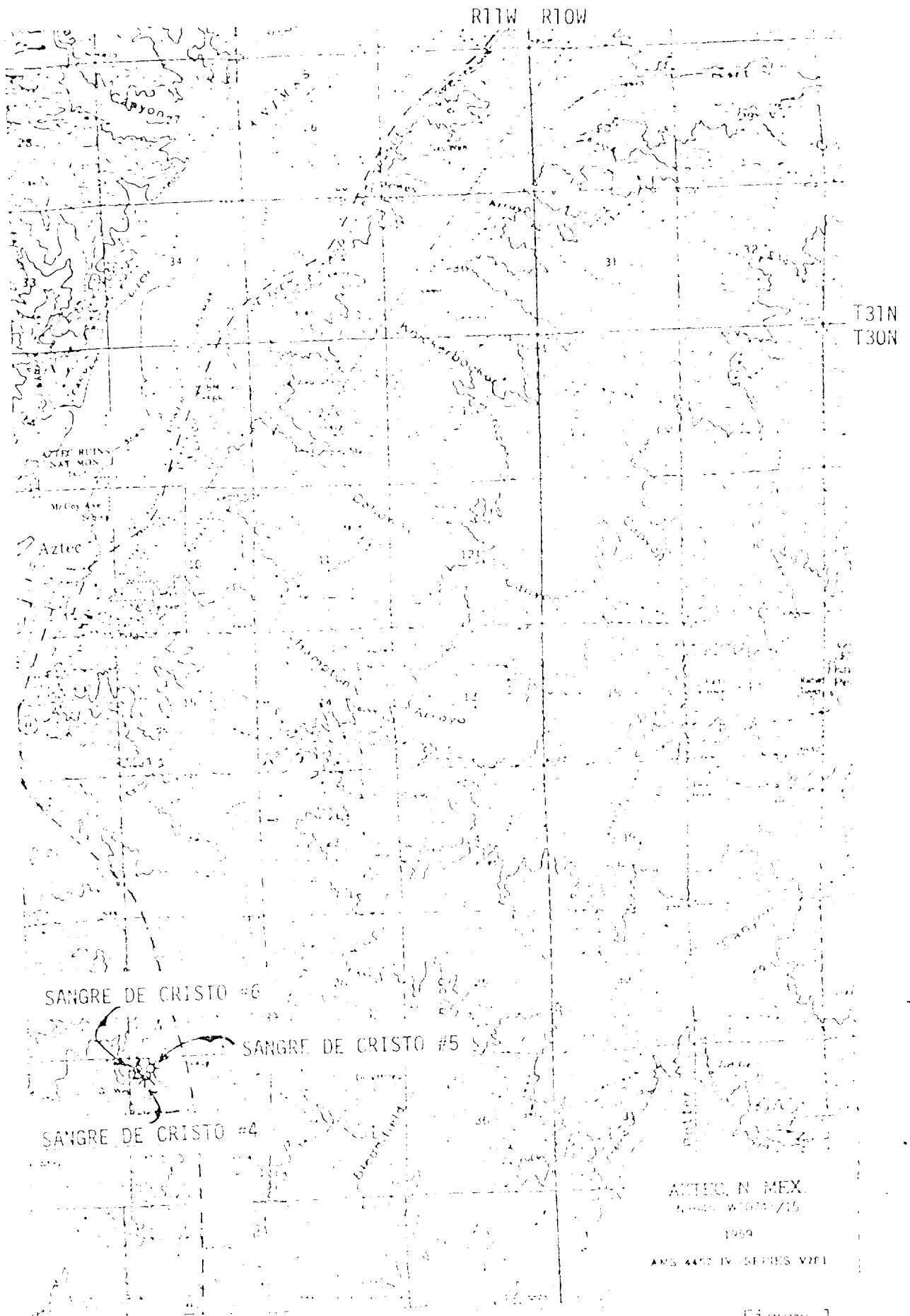


Figure 1

MICROLOGGING

K 8.

61. 5867

WFL: #2-E Murphy

FIELD:.....Aztec

LOCATION: SW NE NW
34-30N-11W

COUNTY:....San Juan....

STATE: New Mexico

FILING No.....

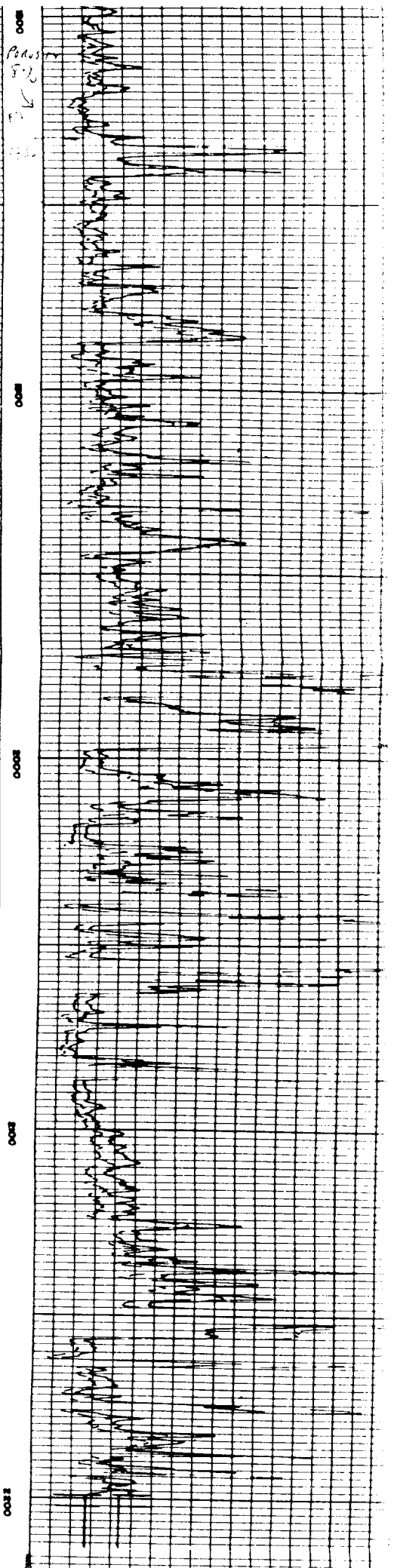
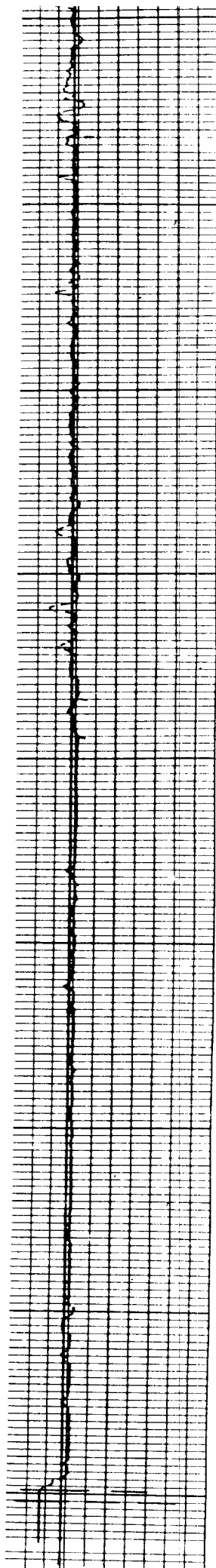
COUNTY: San Juan A380-M
FIELD OR SW NE NW
LOCATION: 34-30N-11W
WELL: #2-E Murphy
COMPANY: El Paso Nat. Gas

RUN NO.	One				
Standing	3-8-55				
Draining	2199				
Core Measured	133				
Show Schum	2066				
Show Driller	133				
Depth Reached	133				
Size Driller	2202				
Pressure	2202				
Datum	KB				
Material	Gel				
Viscosity	9.6				
Reactivity	120				
Reactivity BHT	4.2 93F	● "F"	● "F"	● "F"	● "F"
pH	2.8 93F	● "F"	● "F"	● "F"	● "F"
Water Loss	- - "F"	● "F"	● "F"	● "F"	● "F"
Seepage Temp. °F	-CC 30 Min	CC 30 Min	CC 30 Min	CC 30 Min	CC 30 Min
Seep	83				
Seeps - Ann.	3 3/4"				
A	2"				
AO	- -				
Big Time	1.5"				
Ct. No.	1786				
Ordered By	Farm				
Received By	Montgomery				
	Brown				

REMARKS

REMARKS
Micro log from 133' to 2199'
Insul. Sonde H pad

Spontaneous-Potential millivolts	DENTS	Resistivity ohms. m ² /m.
- + +	5"=100"	Micro Inverse 1" x 1" Q 20 40
		Micro Normal 2" Q 20 40
Caliper	LR 133'	
9 10 11 12 13 14 15 meter in inches		



Schlumberger

DUAL SPACING THERMAL NEUTRON DECAY TIME

FIELD OF FARMINGTON
LOCATION SANGRE DE CRISTO
WELL NO. 2
COMPANY ORVILLE S. SLAUGHTER

COMPANY ORVILLE S. SLAUGHTER

WELL SANGRE DE CRISTO NO. 2

FIELD FARMINGTON

COUNTY SAN JUAN STATE NEW MEXICO

LOCATION: API Serial No. 960 FNL 800 FWL

Other services

Sec. 34 Twp. 30N Rge. 11W

STS

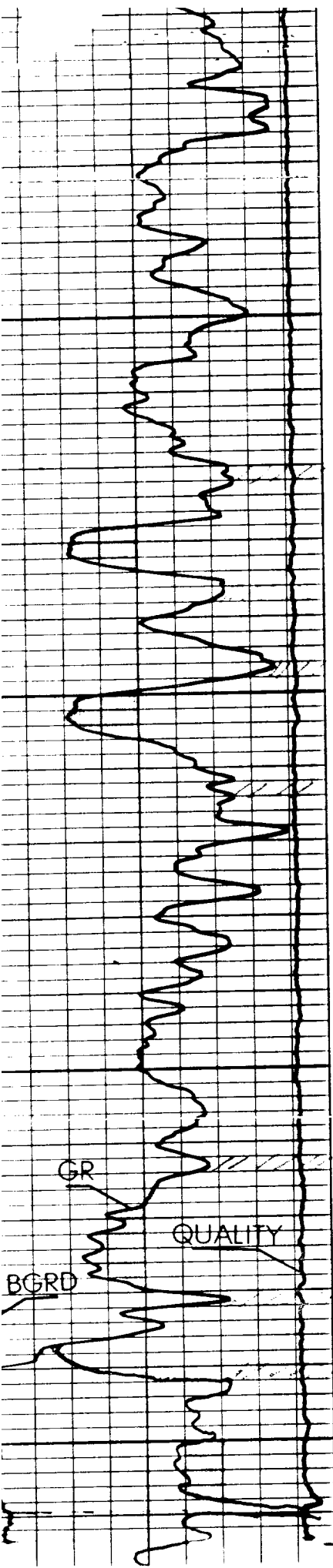
Permanent Datum: QL Elev. 5890
Log Measured From: KB 3 Ft. Above Perm. Datum
Drilling Measured From: KB

Elev. 5890
D.F.
ST

Date: 10-9-76
Run No.: ONE
Type Log: TOT-GR
Depth: 2037
Depth: 2016
Bottom logged interval: 2009
Top logged interval: 100
Type fluid in hole: FRESH WATER
Salinity, ppm Na Cl:
Density:
Level: FULL

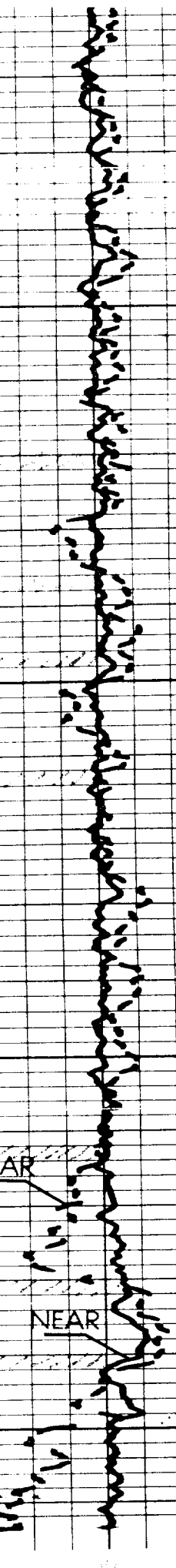
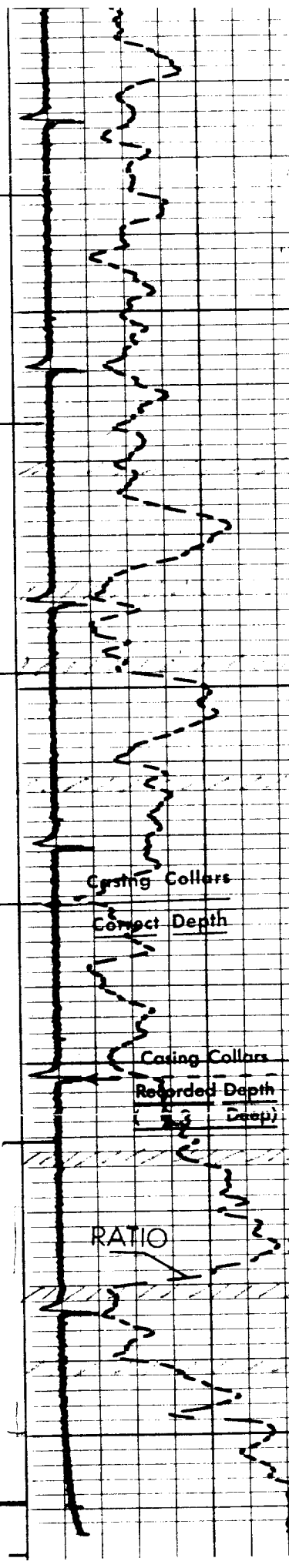
Aux. rec. temp. and S:
Operating rig time: 2 HOURS
Recorded by: FIACCO AND MARCHETTI
Witnessed by: MR. SLAUGHTER AND MR. ATTEBERY
Log tape reading: NO

BORE-HOLE RECORD				CASING & TUBING RECORD			
Log	Bit	From	To	Size	Wgt.	Remarks	To
	3-7/8	1310	2016	2-3/8	---	---	SURF
				4-1/2	---	---	SURF



1900

2000 FR



SCHL.
T.D.

El Paso NATURAL GAS
COMPANY

P. O. BOX 990
FARMINGTON, NEW MEXICO 87401
PHONE: 505-325-2841

November 29, 1979

NEW MEXICO OIL CONSERVATION COMMISSION
Attention: Mr. J. D. Ramey-Director
Post Office Box 2088
Santa Fe, New Mexico 87501

Re: Orville Slaughter & Associates
Request for Non-Standard Location
for the Sangre De Cristo No. 4
Fruitland, 670' FNL, 580' FWL
Section 34, T30N, R11W
San Juan County, New Mexico

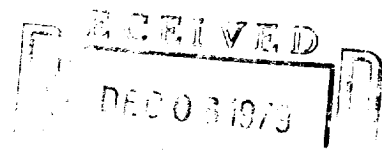
Dear Mr. Ramey:

This is to advise that El Paso Natural Gas Company, as owner of offset acreage to the captioned proposed well, has no objections to the request by Orville Slaughter & Associates.

Yours very truly,

John A. Ahlm

John A. Ahlm
Regional Land Manager
Exploration-Land



OIL CONSERVATION DIVISION
JAA:ld
cc: Mr. Orville Slaughter

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

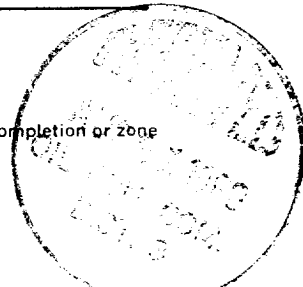
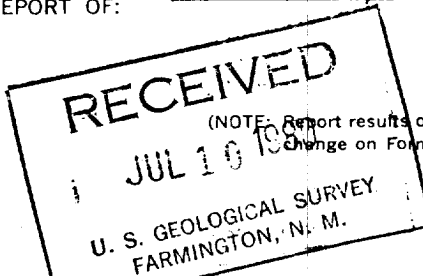
1. oil well ☐ gas well ☒ other ☐
2. NAME OF OPERATOR
Orville SLAUGHTER
3. ADDRESS OF OPERATOR
*DENVER 80205
2626 ADAMS ST. Colo.*
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
670' FWL & 580' FWL
AT SURFACE: *5916*
AT TOP PROD. INTERVAL: *2000*
AT TOTAL DEPTH: *2145'*

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

- TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
CHANGE ZONES ☐
ABANDON* ☒
(other) *WELL # CHANGE*

SUBSEQUENT REPORT OF:



5. LEASE *SF043260A*
SANGRE DE CRISTO #2S
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
N/A
7. UNIT AGREEMENT NAME
N/A
8. FARM OR LEASE NAME
SANGRE DE CRISTO #2S
9. WELL NO.
#2S
10. FIELD OR WILDCAT NAME
UNDESIGNATED FERTLAND
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
34-30N-R11W
12. COUNTY OR PARISH
SANTUAN
13. STATE
NM
14. API NO.
15. ELEVATIONS (SHOW DF, KDB, AND WD)
5916 GL

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Request permission to change the Sangre de Cristo #4 well to the Sangre de Cristo #2S well. This change is because the Arctic Oil and Gas Commission carries all paper work on this well as the Sangre de Cristo #2S infill well.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED *Orville Slaughter* TITLE *Operator* DATE *10 July 1980*
(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITION _____

ACCEPTED FOR RECORD

AUG 20 1980

*See Instructions on Reverse Side

FARMINGTON DISTRICT

CY

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE*

(See other instructions on reverse side)

Form approved,
Budget Bureau No. 1004-0137
Expires August 31, 1985

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ Other ☐

b. TYPE OF COMPLETION:

NEW WELL ☐ WORK OVER ☐ DEEP-EN ☒ PLUG BACK ☐ DIFF. REVR. ☐

2. NAME OF OPERATOR

Orville Slaughter

3. ADDRESS OF OPERATOR

2626 Adams St., Denver, Colorado 80205

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface 670 FNL, 580 FWL

At top prod. interval reported below

At total depth

14. PERMIT NO.

DATE ISSUED

Nov. 19, 1979

15. DATE SPUDDED

12/24/79

16. DATE T.D. REACHED

6/14/80

17. DATE COMPL. (Ready to prod.)

6/27/80

18. ELEVATIONS (OF, RKB, RT, GR, ETC.)*

5900 GL

19. ELEV. CASINGHEAD

5900 GL

20. TOTAL DEPTH, MD & TVD

2183

21. PLUG BACK T.D., MD & TVD

2175

22. IF MULTIPLE COMPL., HOW MANY*

N/A

23. INTERVALS DRILLED BY

ROTARY TOOLS

Rotary

CABLE TOOLS

N/A

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*

25. WAS DIRECTIONAL SURVEY MADE

Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN Induction electric

Dual Spacing Thermal Neutron Decay Time

27. WAS WELL CORED

No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
7"	17#	100'	8-3/4"	Circulated Cement	None
2-7/8"	6.4#	2175'	6-1/4"	Circulated Cement	None

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	BACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
N/A					N/A		

31. PERFORATION RECORD (Interval, size and number)

2008	1 shot	2021	1 shot
2009	1 shot	2022	1 shot
2010	1 shot	2023	1 shot
2011	1 shot		
TOTAL		7 shots	

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
2008-23	250 gal MCA

33.* PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
6/27/80		Flowing				Producing	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
6/26/80	4	8/64		-0-	50 MCF	-0-	-0-
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
150#							

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

El Paso

TEST WITNESSED BY

N/A ACCEPTED FOR RECORD

35. LIST OF ATTACHMENTS

TOPS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

Orville Slaughter

TITLE

Operator

FARMINGTON RESOURCE AREA

DATE

JUN 02 1988

BY

Sm

*(See Instructions and Spaces for Additional Data on Reverse Side)

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	GEOLOGIC MARKERS		
				NAME	MEAS. DEPTH	TOP TRUE VERT. DEPTH
Surface	San Jose					
Ojo Alamo	730					
Kirtland	735					
Farmington	830					
Fruitland	2000					
Total Depth	2145					
PERF TOTAL OF 7 SHOT AT						
2008 - 1 shot						
2009 - 1 shot						
2010 - 1 shot						
2011 - 1 shot						
2021 - 1 shot						
2022 - 1 shot						
2023 - 1 shot						

38.