



OIL CONSERVATION DIVISION  
RECEIVED

DALLAS DIVISION

'91 AUG 26 AM 10 07

August 23, 1991

State of New Mexico  
Oil Conservation Division  
P. O. Box 2088  
Santa Fe, New Mexico 87504-2088

Attn: Mr. Michael E. Stogner

RE: Nymeyer "A" No. 2  
Section 15 - T23S- R28E  
Eddy County, New Mexico

Dear Mr. Stogner:

Graham Royalty, Ltd. is requesting a location exception for the subject well to allow production from the Bone Springs formation. Attached are two plats indicating the offset wells. As shown there are no Bone Springs wells within our section and the closest Bone Springs producer is roughly 1-3/4 miles to the south.

The subject well was initially drilled to test the Delaware (Brushy Canyon) well on 40-acre spacing and therefore the location was within the field rules as prescribed by the state. To avoid known water production in offsets from the Delaware, we located our proposed Delaware test at the site illustrated on the attachments. However, we have encountered a productive section of the Bone Springs in which we are intending to complete. The South Culebra (Bone Springs) pool in which this completion would fall, is spaced for 80 acres. Field rules require locations to be within 150 feet of the center of either 40-acre tract comprising the 80-acre spacing unit. Consequently, the need for the location exception. Review of offset logs indicate that this Bone Springs section does not have commercially-productive quality in our Nymeyer "A" No. 1 to the north or the OXY-operated Yarbrow No. 1 to the southeast (logs enclosed). Consequently, the areal extent of this section may be quite limited and relocating our well jeopardizes recovery of these resources as well as produces economic waste.

Letter to State of New Mexico  
Nymeyer "A" No. 2 - Location Exception  
August 22, 1991  
Page 2

Hence, to avoid this risk and eliminate economic waste, we are requesting the location exception to allow for optimum recovery of minerals from this zone. As required we have notified all offset operators of this request. Please contact me if I may be of further assistance. Thank you.

Sincerely,

GRAHAM ROYALTY, LTD.



Jason C. Sizemore  
Senior Petroleum Engineer

JCS:ca  
a:nyma#2.snm

Attachments

cc: Mr. Mike Williams  
P. O. Drawer DD  
Artesia, New Mexico 88210

August 23, 1991

Yates Petroleum Corporation  
105 S. 4th  
Artesia, NM 88210

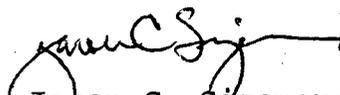
RE: Location Exception  
Nymeyer "A" No. 2  
1,650' FNL, 2,310' FWL  
Section 15 - T23S - R28E  
Eddy County, New Mexico

Dear Offset Operator:

Graham Royalty, Ltd. hereby notifies you that we have applied to the New Mexico Oil Conservation Division for a location exception for the subject well to test the Bone Springs. Should you need any additional information, please contact me at the number below. Thank you.

Sincerely,

GRAHAM ROYALTY, LTD.



Jason C. Sizemore  
Senior Petroleum Engineer

JCS:ca  
a:offsetop.na2

August 23, 1991

Bird Creek Resources  
1412 S. Boston, Suite 550  
Tulsa, OK 74119

Attn: Mr. Brad Burks

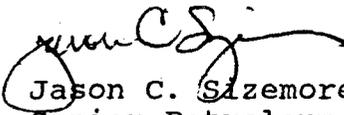
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Sincerely,

GRAHAM ROYALTY, LTD.



Jason C. Sizemore  
Senior Petroleum Engineer

JCS:ca  
a:offsetop.na2

August 23, 1991

R. C. Bennett  
Suite 595  
One Marienfeld Place  
Midland, TX 79702

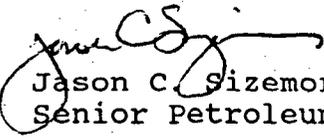
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GRAHAM ROYALTY, LTD.

  
Jason C. Sizemore  
Senior Petroleum Engineer

JCS:ca  
a:offsetop.na2

Submit to Appropriate District Office  
 State Lease - 4 copies  
 Fee Lease - 3 copies

State of New Mexico  
 Energy, Minerals and Natural Resources Department

Form C-102  
 Revised 1-1-89

**OIL CONSERVATION DIVISION**

**DISTRICT I**  
 P.O. Box 1980, Hobbs, NM 88240

P.O. Box 2088  
 Santa Fe, New Mexico 87504-2088

**DISTRICT II**  
 P.O. Drawer DD, Artesia, NM 88210

**DISTRICT III**  
 1000 Rio Brazos Rd., Aztec, NM 87410

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

All Distances must be from the outer boundaries of the section

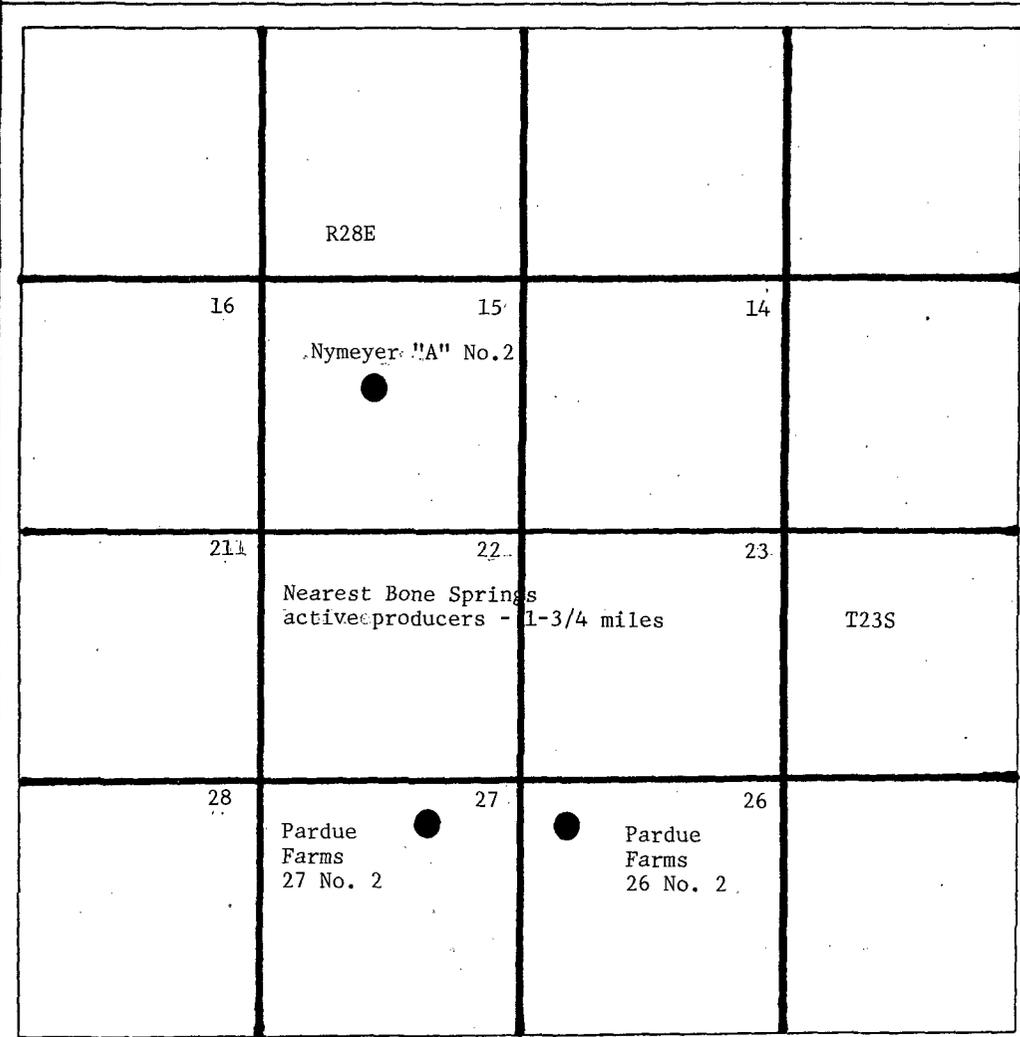
Operator Graham Royalty, Ltd.			Lease Nymeyer		Well No. "A" No. 2
Unit Letter F	Section 15	Township 23S	Range 28E	County NMPM Eddy	
Actual Footage Location of Well: 1,650 feet from the North line and 2,310 feet from the West line					
Ground level Elev. 2,996'	Producing Formation Bone Springs		Pool Culebra Bluff, South		Dedicated Acreage: 80 Acres

- Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- If more than one lease of different ownership is dedicated to the well, have the interest 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 interest, has been approved by the Division.



**OPERATOR CERTIFICATION**

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

Signature

*Jason C. Sizemore*

Printed Name

Jason C. Sizemore

Position

Senior Petroleum Engineer

Company

Graham Royalty, Ltd.

Date

8/21/91

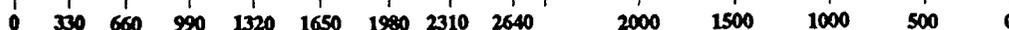
**SURVEYOR CERTIFICATION**

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.

Date Surveyed

Signature & Seal of Professional Surveyor

Certificate No.



Submit to Appropriate District Office  
 State Lease - 4 copies  
 Fee Lease - 3 copies

State of New Mexico  
 Energy, Minerals and Natural Resources Department

Form C-102  
 Revised 1-1-89

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**WELL LOCATION AND ACREAGE DEDICATION PLAT**

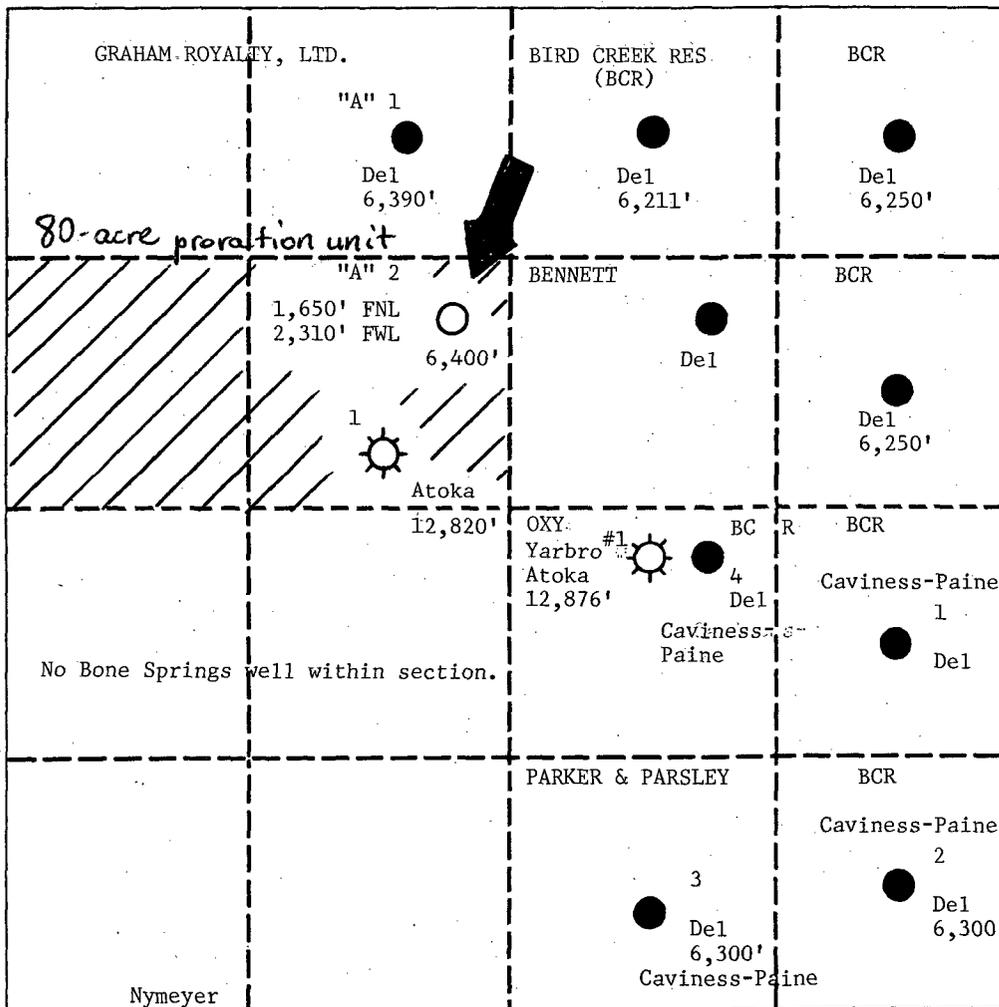
All Distances must be from the outer boundaries of the section

Operator Graham Royalty, Ltd.			Lease Nymeyer		Well No. "A" No. 2
Unit Letter F	Section 15	Township 23S	Range 28E	County NMPM Eddy	
Actual Footage Location of Well: 1,650 feet from the North line and 2,310 feet from the West line					
Ground level Elev. 2,996'	Producing Formation Bone Springs		Pool S. Culebra Bluff (Bone Springs)	Dedicated Acreage: 80 Acres	

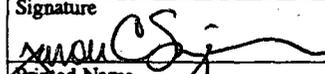
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- If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc.?  
 Yes     No    If answer is "yes" type of consolidation \_\_\_\_\_

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

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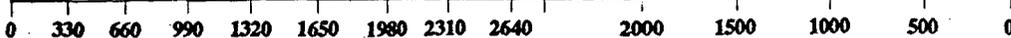
**OPERATOR CERTIFICATION**  
 I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Signature  
  
 Printed Name  
 Jason C. Sizemore  
 Position  
 Senior Petroleum Engineer  
 Company  
 Graham Royalty, Ltd.  
 Date  
 8/21/91

**SURVEYOR CERTIFICATION**  
 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.

Date Surveyed  
 Signature & Seal of Professional Surveyor

Certificate No.



Above Plat represents Section 15 - T23S - R28E only

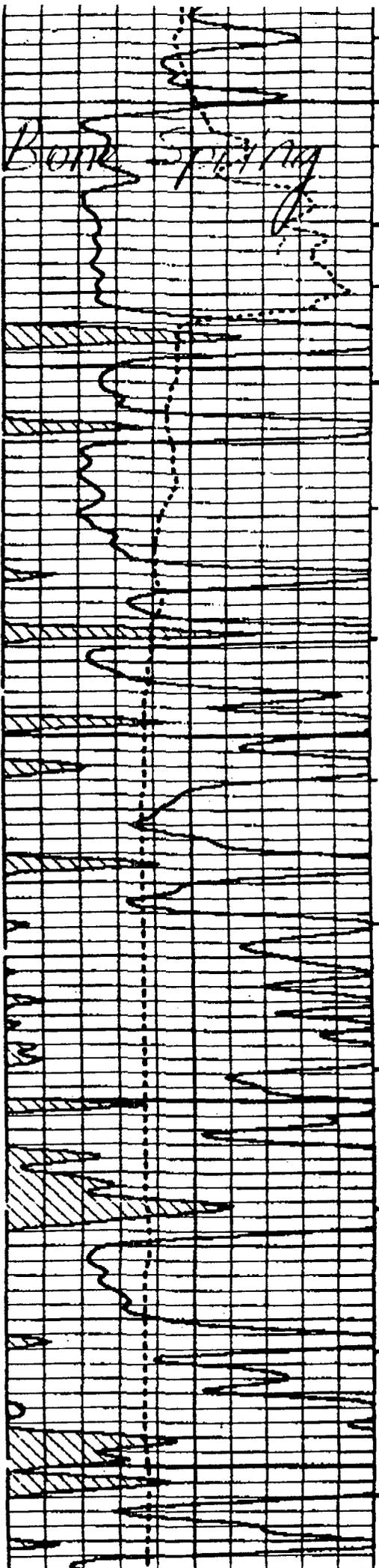
**Schlumberger**

STIMULTANEOUS  
**COMPENSATED NEUTRON-  
LITHO DENSITY**

COUNTY EDDY FIELD NORTH LOVING LOCATION YARBRO "A" COM. WELL #1 COMPANY CITIES SERVICE CO.	COMPANY <u>CITIES SERVICE COMPANY</u>			
	WELL <u>YARBRO "A" COM. #1</u>			
	FIELD <u>NORTH LOVING</u>			
	COUNTY <u>EDDY</u> STATE <u>NEW MEXICO</u>			
LOCATION	2310' FSL & 1980' FEL,			
API SERIAL NO	SEC.	TWP.	RANGE	Other Services:
	15	23-S	28-E	DLL/MSFL NGT <b>(KB 3015)</b>
Permanent Datum: <u>G.L.</u> ; Elev.: <u>3000</u>			Elev.: K.B. <u>3020</u>	
Log Measured From <u>K.B.</u> <u>20</u> Ft. Above Perm. Datum			D.F. _____	
Drilling Measured From <u>K.B.</u>			<u>295</u> /G.L. <u>3000</u>	
Date	7-15-82	8-22-82	AT <u>AK 04</u>	
Run No.	ONE	TWO	MW <u>AK 04</u>	
Depth-Driller	10640	10640	<b>DURO PRODUCING COMPANY</b>	
Depth-Logger	10641	12878	300 MIDLAND TOWER	
Btm. Log Interval	10637	12876	P.O. BOX 10340	
Top Log Interval	SURF	10635	MIDLAND, TX 79708	
Casing-Driller	10 3/4 @ 2455	7 5/8 @ 10640	<u>(915) 801-6000</u>	
Casing-Logger	2456	10635		
Bit Size	9 1/2	6 1/2"		
Type Fluid in Hole	CUT BRINE	XG POLYMER		
Dens.	9.7	28	12.4	40
pH	9.5	ml	10	9.5 ml
Fluid Loss				
Source of Sample	MUD PIT	CIRC.		
Rm @ Meas. Temp.	.069 @ 81 °F	.057 @ 74 °F	@ °F	@ °F
Rmf @ Meas. Temp.	.052 @ 81 °F	.044 @ 76 °F	@ °F	@ °F
Rmc @ Meas. Temp.	.105 @ 81 °F	@ °F	@ °F	@ °F
Source: Rmf   Rmc	C   C	M		
Rm @ BHT	.033 @ 179 °F	.024 @ 191 °F	@ °F	@ °F
TIME	Circulation Stopped	1930 7-15	0030 8-21	
Logger on Bottom	0700 7-16	0200 8-22		
Max. Rec. Temp.	179 °F	191 °F	= 371 °F (ACT) = 610 °F	

Bone

Spine

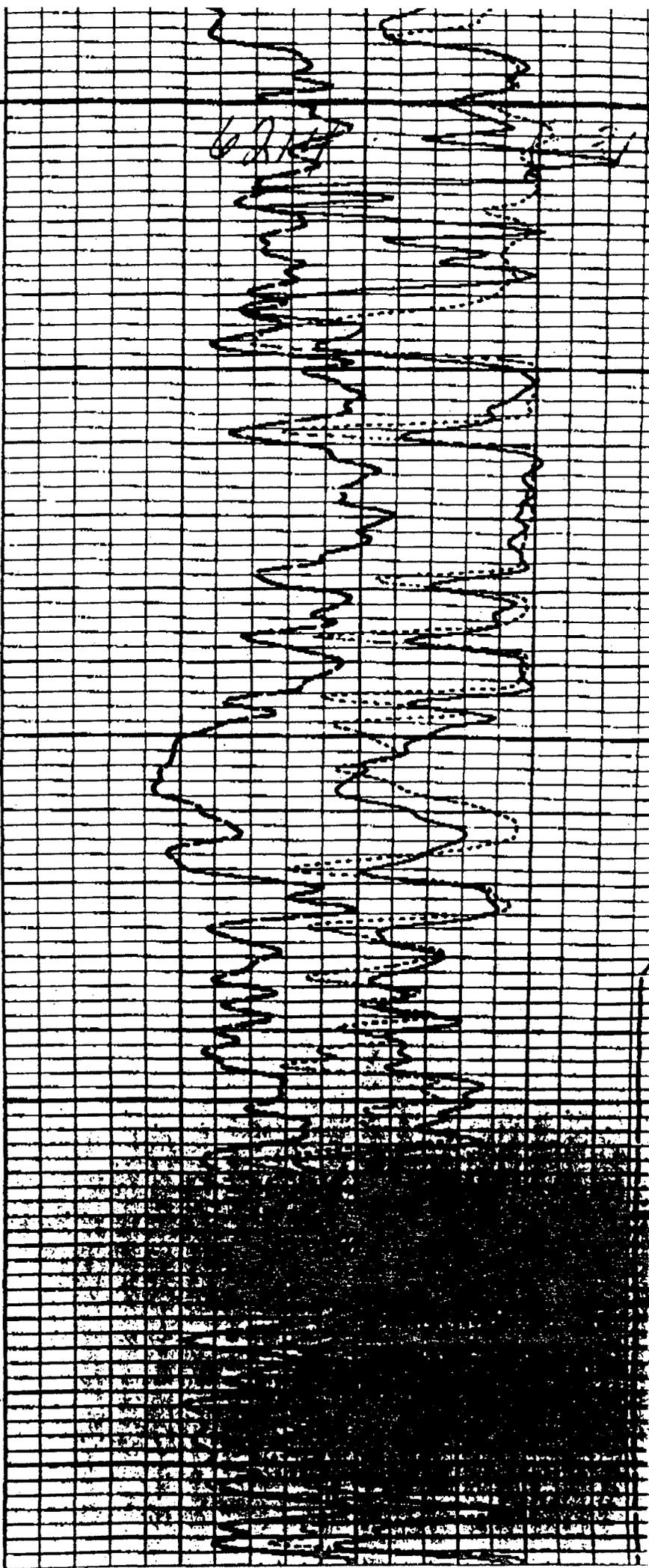


6300

6400

Bone

Spine





SPECTRAL DENSITY  
DUAL SPACED  
NEUTRON LOG

COMPANY GRAHAM RESOURCES WELL NYMEYER A NO. 2 FIELD EAST LOVING DELAWARE COUNTY EDDY STATE NM	COMPANY GRAHAM RESOURCES	
	WELL NYMEYER A NO. 2	
	FIELD EAST LOVING DELAWARE	
	COUNTY EDDY	STATE NM
API NO LOCATION		OTHER SERVICES
1650 FNL AND 2310 FWL		DLL-MSFL
SECT 15	TWP 23-S	RGE 28-E
PERMANT DATUM G. L.	ELEV. 2996	ELEV.: K.B. 3010.5
LOG MEASURED FROM K. B. 14.5	FT. ABOVE PERM DATUM	D.F. 3009.5
DRILLING MEASURED FROM K. B.		G.L. 2996.0
DATE	7/21/91	
RUN NO.	ONE	
DEPTH-DRILLER	6400	
DEPTH-LOGGER	6401	
BTH. LOG INTER	6400	
TOP LOG INTER	2500	
CASING DRILLER	8.625#530	e
CASING-LOGGER	531	
BIT SIZE	7.875	
TYPE FLUID IN HOLE	SALT GEL	
DENS. : VISC.	10.5 : 31.0	:
PH : FLUID LOSS	12.0 : 11.2	:
SOURCE OF SAMPLE	MUD PIT	
RM : MEAS. TEMP.	0.08 #67	e
RMF : MEAS. TEMP.	0.07 #65	e
RMC : MEAS. TEMP.	NA #NA	e
SOURCE RMF:RMC	MEAS. : MEAS.	:
RM #HT	0.045#119	e
TIME SINCE CIRC.	NA	
TIME ON BOTTOM	2:05 AM	
MAX. REC TEMP.	119 #B.H.	e
EQUIP. : LOCATION	52555:H0BB	:
RECORDED BY	BAEZA	
WITNESSED BY	SIZEMORE	

6200

(-3237')

# BONE SPRINGS SAND

6250

6300

6350

6400

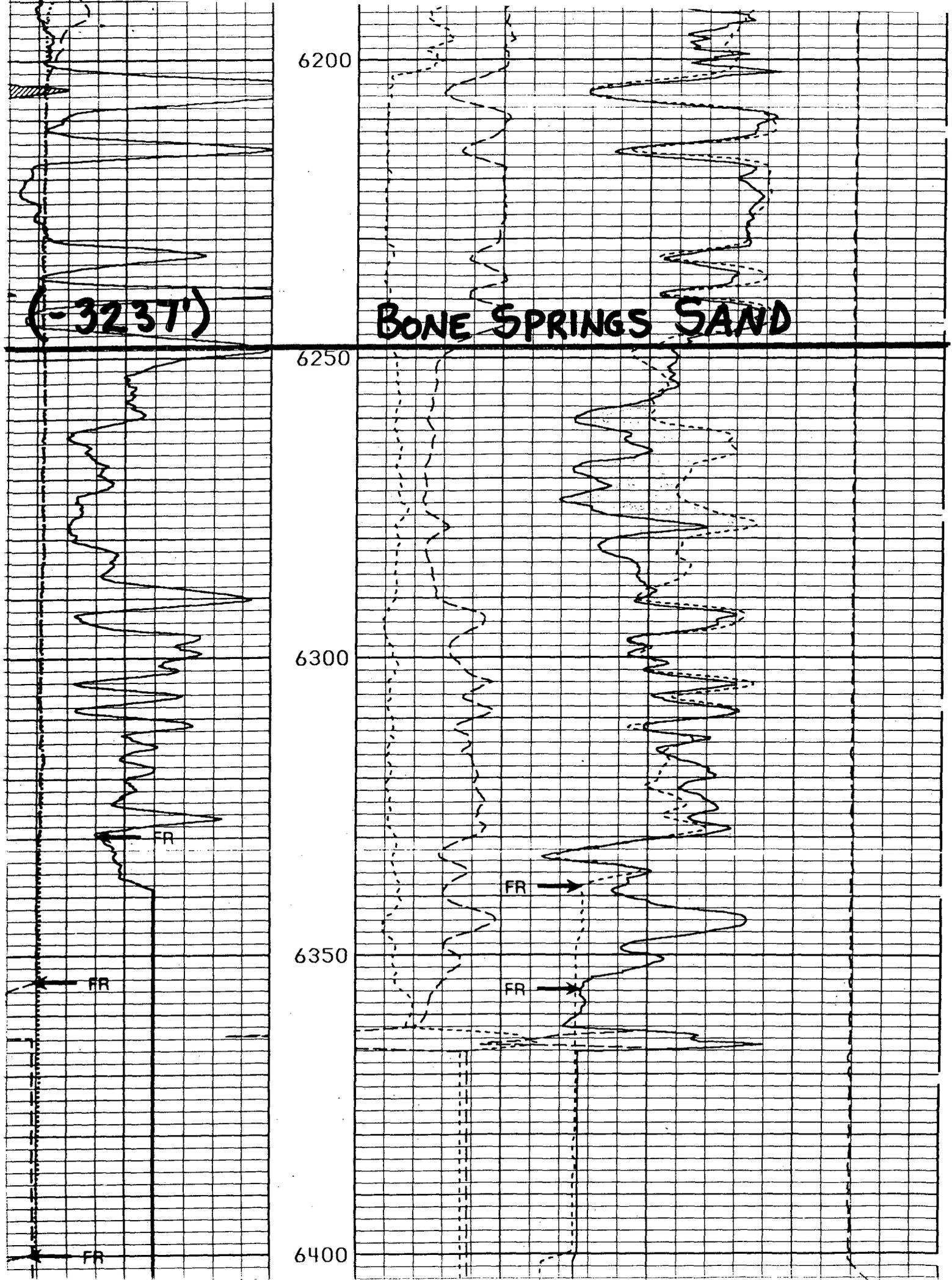
FR

FR

FR

FR

FR



**MARKED**



**ATLAS  
WIRELINE  
SERVICES**

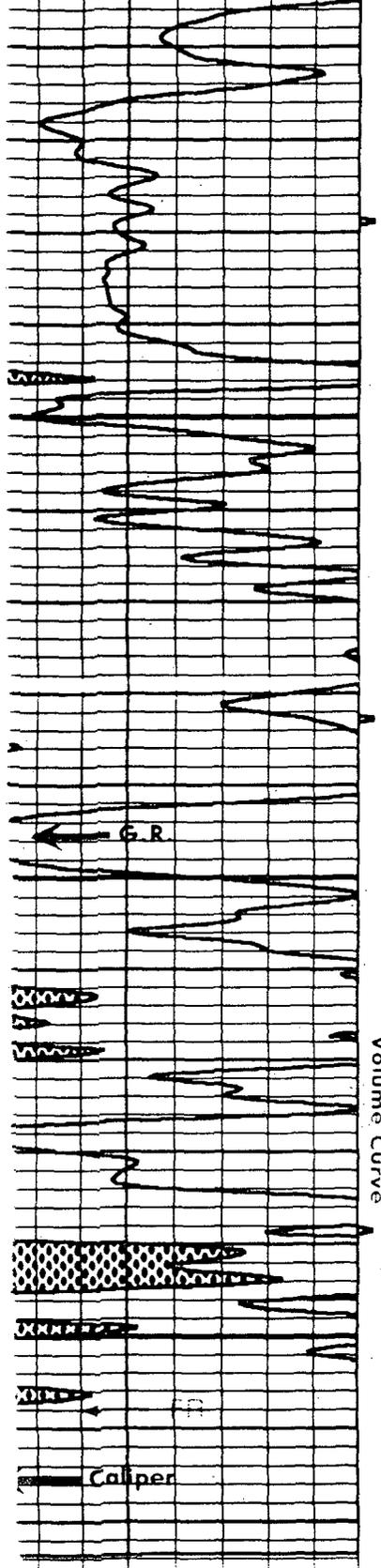
**COMPENSATED DENSILOG  
COMPENSATED NEUTRON  
Gamma Ray**

FILE NO.	COMPANY <u>GRAHAM ROYALTY INC.</u>		
API NO. 30-015-26576	WELL <u>NYMEYER A NO: 1</u>		
	FIELD <u>EAST LOVING ( DELAWARE )</u>		
	COUNTY <u>EDDY</u>		STATE <u>NEW MEXICO</u>
	LOCATION: 660' FNL & 2030' FWL  SEC 15 TWP 23-S RGE 28-E		OTHER SERVICES DLL/MLL/GR AC/GR FRAC. / MIG.
PERMANENT DATUM <u>GROUND LEVEL</u>	ELEVATION <u>2996'</u> FT.	ELEVATIONS	
LOG MEASURED FROM <u>K.B.</u>	<u>14.5</u> FT. ABOVE PERMANENT DATUM	KB	<u>3010.5'</u>
DRILL. MEAS. FROM <u>KELLY BUSHING</u>		DF	<u>3009.5'</u>
		GL	<u>2996.0'</u>
DATE	<u>09 February 1991</u>		
RUN	<u>ONE</u>		
SERVICE ORDER	<u>69474</u>		
DEPTH DRILLER	<u>6393'</u>		
DEPTH LOGGER	<u>6385'</u>		
BOTTOM LOGGED INTERVAL	<u>6380'</u>		
TOP LOGGED INTERVAL	<u>550'</u>		
CASING - DRILLER	<u>8 5/8"</u>	<u>@588'</u>	<u>@</u>
CASING LOGGER	<u>586'</u>		
BIT SIZE	<u>7 7/8"</u>		
TYPE FLUID IN HOLE	<u>SALT GEL / STARCH</u>		
DENSITY / VISCOSITY	<u>10.2</u> PPG	<u>37</u>	
PH / FLUID LOSS	<u>9.0</u>	<u>NC</u>	
SOURCE OF SAMPLE	<u>FLOWLINE</u>		
RM AT MEAS. TEMP.	<u>0.053</u>	<u>@86 DEG.F</u>	<u>@</u>
RMF AT MEAS. TEMP.	<u>0.053</u>	<u>@86 DEG.F</u>	<u>@</u>
RMC AT MEAS. TEMP.	<u>-</u>	<u>@ -</u>	<u>@</u>
SOURCE OF RMF / RMC	<u>MEASURED</u>	<u>-</u>	
RM AT BHT	<u>0.042</u>	<u>@111 DEG.F</u>	<u>@</u>
TIME SINCE CIRCULATION	<u>8.0 HOURS</u>		
MAX. REC. TEMP. DEG. F	<u>111 DEG.F</u>		
EQUIP. NO. / LOCATION	<u>HL 6364</u>	<u>HOBBS, N.M.</u>	
RECORDED BY	<u>D.KASSISIEH / K.UOKES</u>		
WITNESSED BY	<u>C. LINDSAY / J. SIZEMORE</u>		

(-3193')

06200

# BONE SPRINGS SAND



06300

