



P.O. Drawer 3337, 700 S. Tucker, Farmington, New Mexico 87499
(505) 327-4961 • 24-Hour Dispatch (505) 325-6892 • (505) 327-3416

DATE: 10-31-97

RIG # 37

RECEIVED
DEC 15 1997

OIL CON. DIV.
DIST. 3

WILLIAMS PRODUCTION COMPANY
ONE WILLIAMS CENTER
P.O. BOX 3102, MS37-2
TULSA OK. 74101

ATTN: MIKE TURNBAUGH *30-039-25721*

THIS LETTER IS TO CERTIFY THAT BIG A WELL SERVICE DID RUN DEVIATION SURVEYS
AT THE LISTED DEPTH ON YOUR ROSA # 337 WELL, IN SECTION 32, T-31-N, R-5-W, IN RIO
ARRIBA COUNTY, NEW MEXICO.

DEPTH	DEGREE DEVIATION	DEPTH	DEGREE DEVIATION
158	3/4	2343	3/4
446	1	2875	1
1383	3/4	3219	1
1845	1		

TO THE BEST OF MY KNOWLEDGE, I SWEAR THIS INFORMATION TO BE TRUE.

SINCERELY,

John K. Richardson

JOHN K. RICHARDSON
DRILLING MANAGER

Ava Joanna Powell
Notary Public

My commission expires: *6/9/00*

ROSA UNIT #337

FRUITLAND COAL

2045' FSL 1450' FWL
NE/4 SW/4 SEC 32K T31N R5W
Rio Arriba Co, NM

Elevation: 6525' GL
KB 15'

Drilled in 1997

7 jts 9-5/8", 36#, K-55, ST&C @ 283'

105 jts of 2-3/8", 4.7#, J-55, 8rd EUE tbg with
expendable check and 1/2 mule shoe. SN @
3266'. Landed tbg @ 3299'.

Ojo Alamo 2650'

Kirtland 2760'

Fruitland 3232'

Base of Coal 3351'

TIW model JGS liner top @ 3121'

71 jts 7", 20#, K-55 @ 3217'

3231'

Perforations
Total of 64' and
256 holes

3240'

3294'

3349'

5 jts 5-1/2", 15.5#, ST&C @ 3121' - 3351'

TD @ 3351'

HOLE SIZE	CASING	CEMENT	TOP OF CMT
12-1/4"	9-5/8" 36#	130 sx	Surface
8-3/4"	7" 20#	425 sx	70' Temp
6-1/4"	5-1/2" 15.5#	Did Not Cement	N/A

ROSA UNIT #337

FRUITLAND COAL

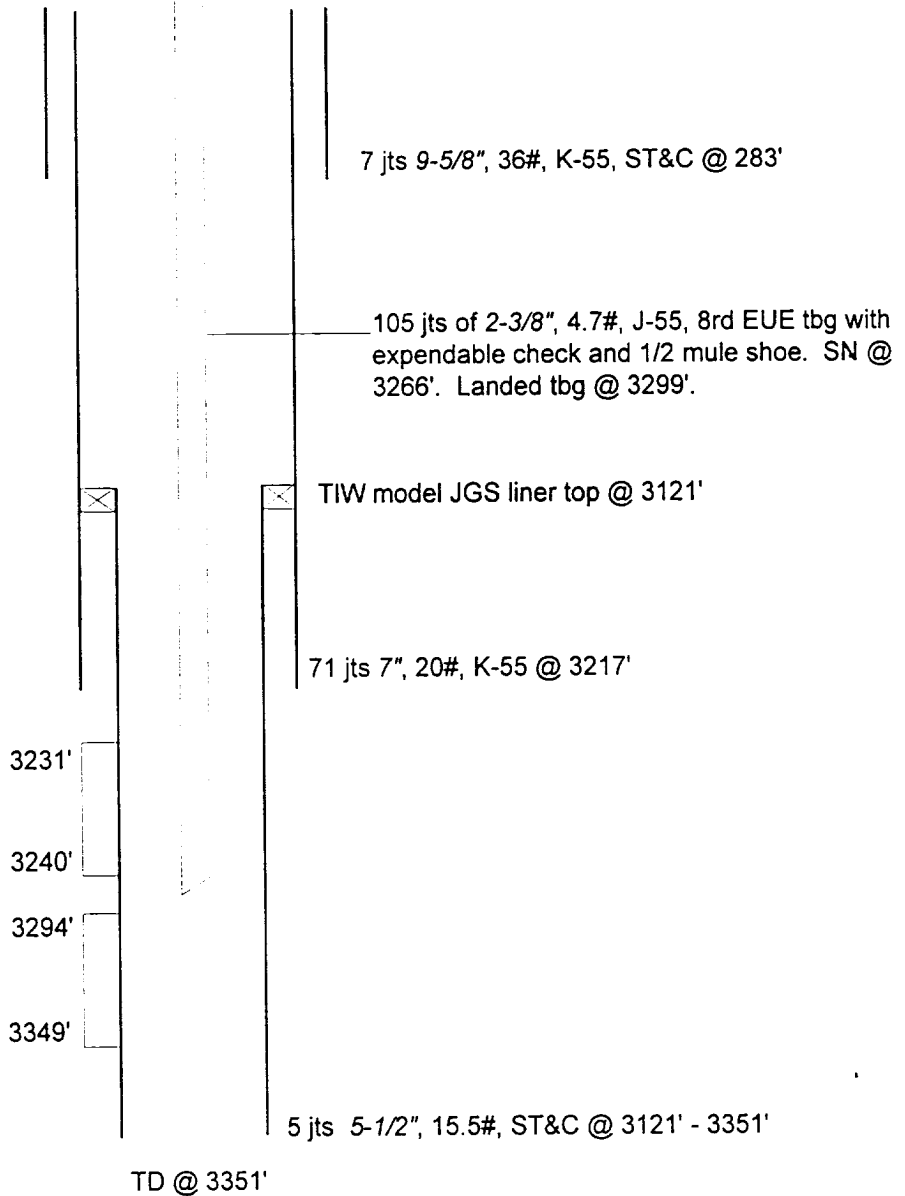
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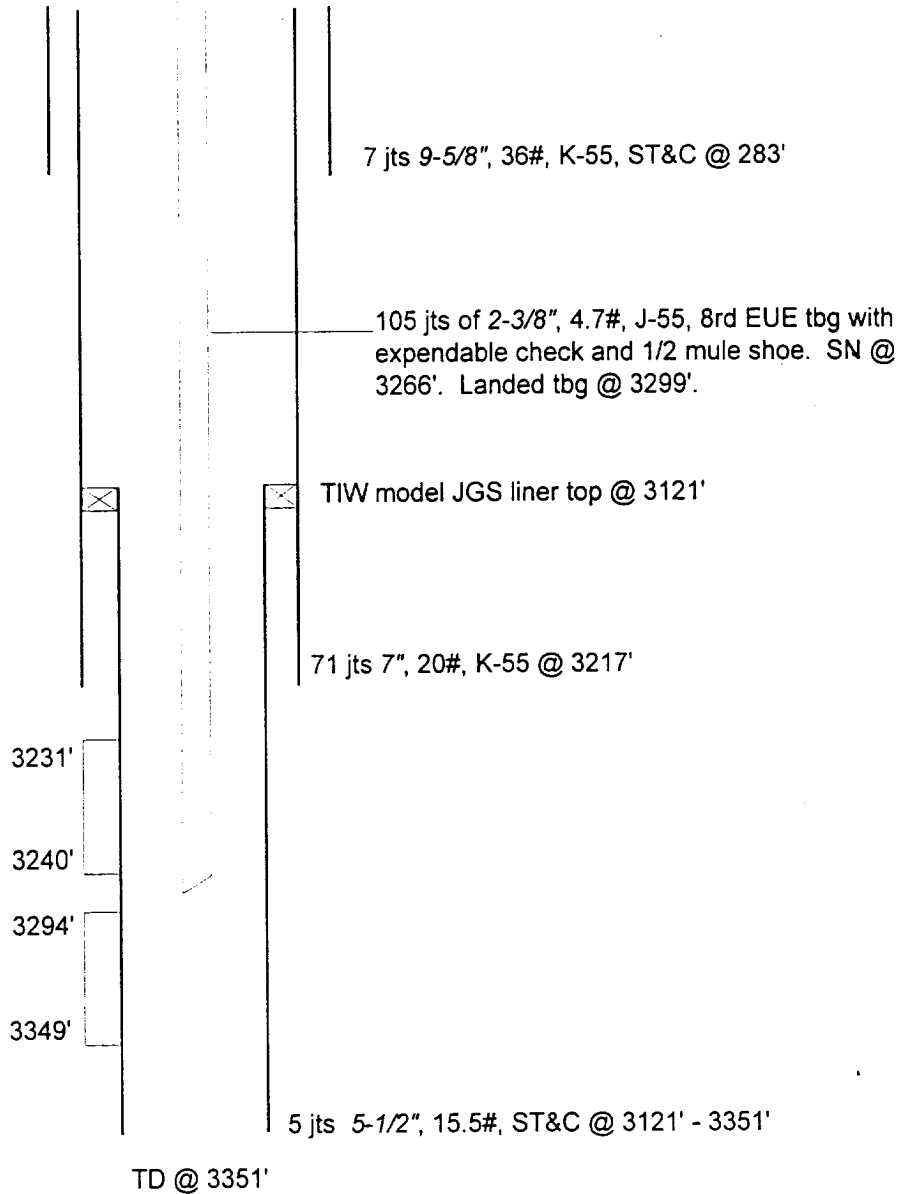
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