

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS IN
NORTHWEST NEW MEXICO

OPERATOR: Williams Production Company LOCATION: A 32 31 5 LEASE NUMBER: E-347

NAME OF WELL/WELLS OR PIPELINE SERVICED: ROSA UNIT #026 MV 30-039-60081
DUALWELL ROSA #334 30-039-24777

ELEVATION: 6527' GR COMPLETION DATE: 10/31/77 TOTAL DEPTH: 300 ft. LAND TYPE: STA

CASING: 7-5/8" 26.4# K-55 Set @ N/A ft. Casing is not cemented.

CEMENT PLUG--Top:N/A' Bottom: N/A' Used 0 sq. Class "B" (1.18 cu.ft./sk).

WATER DEPTH: 40 ' Water zone thickness not available. WATER DESCRIPTION: Fresh

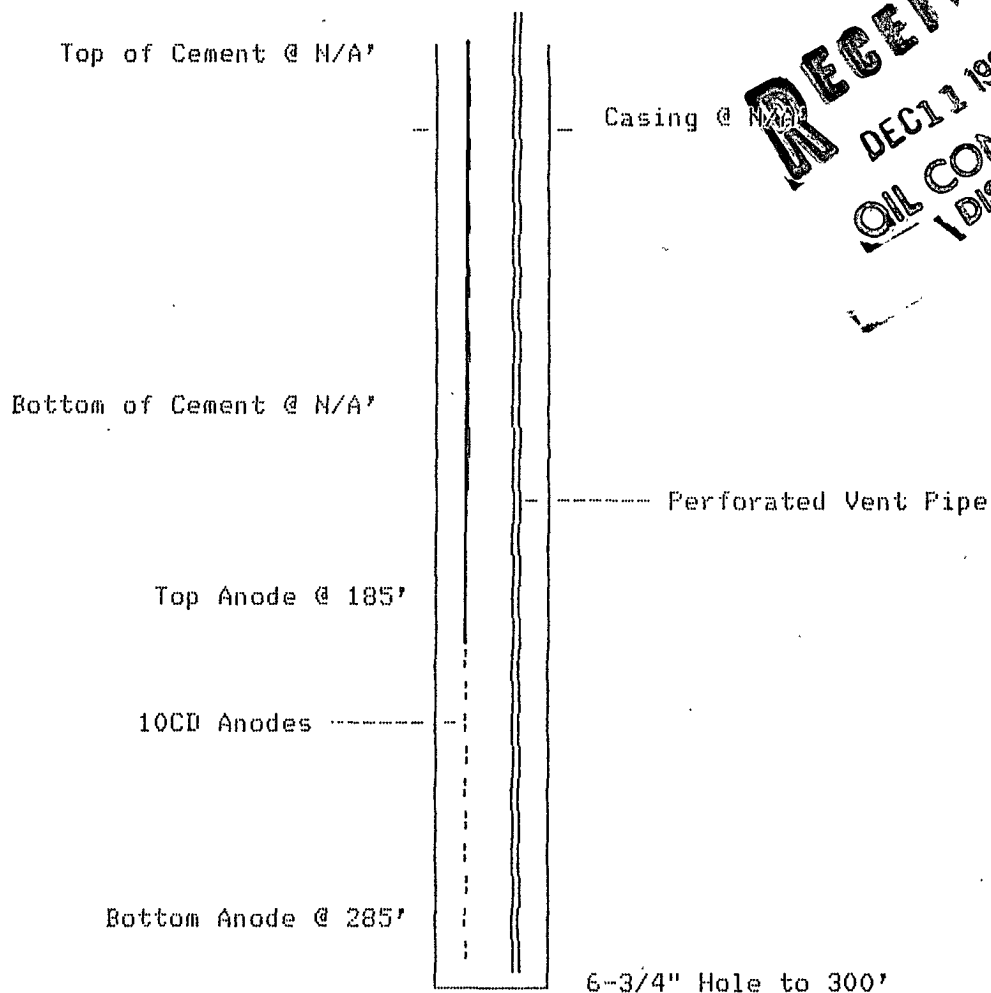
DEPTH OF GAS: N/A '

COKE: 4455 lbs. of Metallurgical coke breeze used.

NUMBER & TYPE OF ANODES: 10CD TOP ANODE @ 185 ft. BOTTOM ANODE @ 285 ft.

VENT PIPE: 1" PVC Set @ 300 ft. Vent pipe perforated from 165 ft. to 300 ft.

REMARKS: _____



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WELL TYPE GROUND BED DATA

DATA SHEET NO. 10 of 2

COMPANY NORTHWEST Pipeline Co. JOB No. 9279 DATE: 10-31-77
 WELL: ROSA UNIT # 26 PIPELINE: _____
 LOCATION: SEC. 32 TWP. 34N RGE. 5W CO. RIO ARriba STATE NEW MEXICO
 ELEV. 10526.6 FT: ROTARY _____ FT: CABLE TOOL _____ FT: CASING _____ FT.
 GROUND BED: DEPTH 300 FT. DIA. 1 3/4 IN. GAB. 1200 LBS. ANODES 10-CD D-51

DEPTH, FT.	DRILLER'S LOG	DRILL PIPE TO STRUCTURE			EXPLORING ANODE TO STRUCTURE			DEPTH, TOP OF ANODES
		E	I	R	E	I	R	
40	40' Water						7.5	
5							9.0	
50							9.1	
5							10.9	
60							10.8	
5							11.3	
70							11.3	
5							11.1	
80							5.6	
5							5.3	
90							5.4	
5							6.6	
100							6.1	
5							6.3	
10							4.6	
15							3.8	
20							4.1	
5							3.6	
30							3.7	
5							4.0	
40							4.3	
5							3.9	
50							4.0	
5							4.6	
60							4.1	
5							4.3	
70							3.4	
5							3.6	
80							4.1	
5							4.3 ✓ 10.185	
90							4.1	
5							4.0 ✓ 9.195	
200							4.0	
5							4.6 ✓ 8.205	
10							5.5	
15							6.6	
20							5.7	
5							5.3 ✓ 7.225	
30							5.0	
5							4.5 ✓ 6.236	
40							4.6	
5							5.0 ✓ 5.245	
50							4.6	

GROUND BED RESISTANCE: (1) VOLTS _____ + AMPS _____ = _____ OHMS

(2) VIBROGROUND .96 OHMS

cathodic protection service

WELL TYPE GROUNDBED D. A

DATA SHEET NO. 2022

COMPANY NORTHWEST PIPELINE CO. JOB NO. 9279 DATE: 10-31-77
 WELL: ROSA UNIT #24 PIPELINE: _____
 LOCATION: SEC. 32 TWP. 31-N RGE. 5-N CO. RIO ARRIBA STATE NEW MEXICO
 ELEV. 6521.5 FT. ROTARY _____ FT. CABLE TOOL _____ FT. CASING _____ FT.
 GROUNDBED: DEPTH 300' FT. DIA. 6 3/4 IN. GAB 4200 LBS. ANODES 10-CD D-51

DEPTH, FT.	DRILLER'S LOG	DRILL PIPE TO STRUCTURE			EXPLORING ANODE TO STRUCTURE			DEPTH, TOP OF ANODES
		E	I	R	E	I	R	
40'	Water							
5								5.0 ✓ 4.25
60								4.0
70								3.6 ✓ 3.265
80								3.5
90								4.1 ✓ 2.25
100								3.5
110								3.0 ✓ 1.285
120								5.2
130								6.1
140								6.2
150								
160								
170								
180								
190								
200								
210								
220								
230								
240								
250								
260								
270								
280								
290								
300	TD 300'							

GROUNDBED RESISTANCE: (1) VOLTS _____ + AMPS _____ = _____ OHMS

(2) VIEROGROUND .76 OHMS

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