

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 sx. Class "B" (1.18 cu.ft./sk).

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

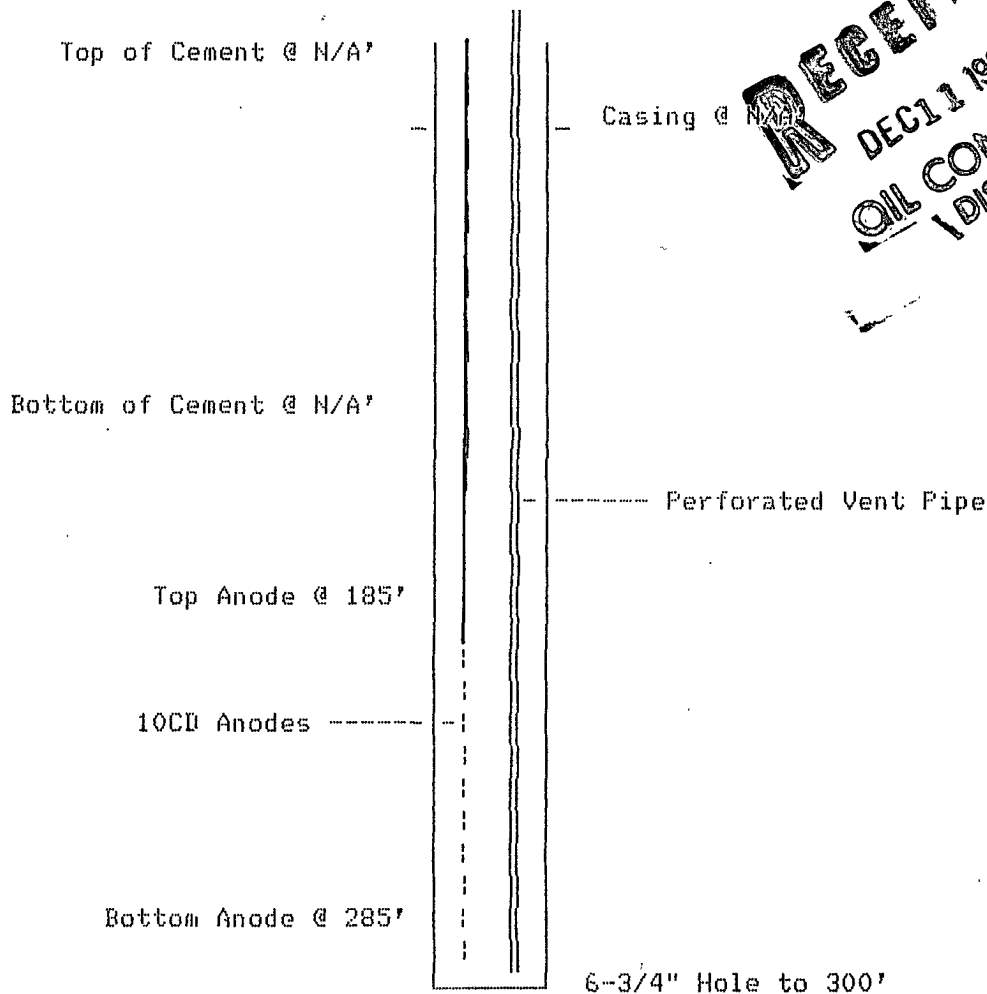
DEPTH OF GAS: N/A '

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. 1092

COMPANY NORTHWEST Pipeline Co. JOB No. 9279 DATE: 10-31-77
 WELL: ROSA Unit # 26 PIPELINE: _____
 LOCATION: SEC. 32 TWP. 34N RGE. 5-W 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							10.0	
60							10.8	
5							11.3	
70							11.3	
5							11.1	
80							5.5	
5							5.3	
90							5.4	
5							6.6	
100							6.1	
5							6.3	
10							4.6	
15							3.5	
20							4.1	
5							3.6	
30							3.7	
5							4.0	
40							4.3	
5							3.9	
50							4.0	
5							4.3	
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							4.0 ✓	8.205
10							5.5	
15							6.6	
20							5.7	
5							5.0 ✓	7.225
30							5.0	
5							4.5 ✓	6.235
40							4.5	
5							5.0 ✓	5.245
50							4.6	

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

(2) VIBROGROUND .76 OHMS

cathodic protection service

DATA SHEET NO. 2042

COMPANY Northwest Pipeline Co. JOB No. 9279 DATE: 10-31-77
WELL: Rosa Unit # 26 PIPELINE: _____
LOCATION: SEC. 32 TWP. 31-N RGE. 5-N CO. Rio Arriba STATE New Mexico
ELEV. 6526 GFT: 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
5								3.6 ✓ 3.25
70								3.5
5								4.1 ✓ 2.25
80								3.5
5								3.0 ✓ 1.25
90								5.2
5								6.1
300	TD 300'							6.2

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

(2) VIEROGROUND .76 OHMS

