

1036

47-30-039-07049
163-30-039 20671

E

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICO
(Submit 3 copies to OCD Aztec Office)

Operator MERIDIAN OIL Location: Unit SW Sec. 18 Twp 27 Rng 5

Name of Well/Wells or Pipeline Serviced SAN JUAN 27-5 UNIT #47, #163
cps 170lw

Elevation 6447' Completion Date 9/20/83 Total Depth 380' Land Type* N/A

Casing, Sizes, Types & Depths N/A

If Casing is cemented, show amounts & types used N/A

If Cement or Bentonite Plugs have been placed, show depths & amounts used
N/A

Depths & thickness of water zones with description of water when possible:
Fresh, Clear, Salty, Sulphur, Etc. 160' SAMPLE TAKEN

Depths gas encountered: N/A

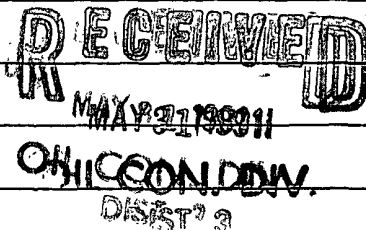
Type & amount of coke breeze used: N/A

Depths anodes placed: 360', 335', 265', 255', 245', 235', 210', 200', 190', 180'

Depths vent pipes placed: 380'

Vent pipe perforations: 240'

Remarks: gb #1



If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included.

*Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee.
If Federal or Indian, add Lease Number.

CATHODIC PROTECTION CONSTRUCTION REPORT
DAILY LOGDrilling Log (Attach Hereto) ☒Completion Date 9-20-83

CPS #	Well Name, Line or Plant:	Work Order #	Static:	Ins. Union Check
1701W	SAN JUAN 27-5 # 47 SAN JUAN 27-5 # 163	53712-19-50-20-64 55541-21-50-20-64	600' NAL = .78 600' N = .76	☒ Good ☐ Bad
Location:	Anode Size	Anode Type	Size Bit	
SW 18-27-5	2" x 60"	Ouriron	6 3/4 miLLtooth Rock b.t	
Depth Drilled	Depth Logged	Drilling Rig Time	Total Lbs. Coke Used	Lost Circulation Mat'l Used
380'	380'		5000	
Anode Depth				
# 1 360	# 2 335	# 3 265	# 4 255	# 5 245
# 6 235	# 7 210	# 8 200	# 9 190	# 10 180
Anode Output (Amps)				
# 1 2.12	# 2 1.97	# 3 2.93	# 4 3.45	# 5 3.35
# 6 3.56	# 7 2.71	# 8 2.36	# 9 3.10	# 10 2.92
Anode Depth				
# 11	# 12	# 13	# 14	# 15
# 16	# 17	# 18	# 19	# 20
Anode Output (Amps)				
# 11	# 12	# 13	# 14	# 15
# 16	# 17	# 18	# 19	# 20
Total Circuit Resistance				
Volts 11.4	Amps 11.5	Ohms .99	No. 8 C.P. Cable Used	No. 2 C.P. Cable Used

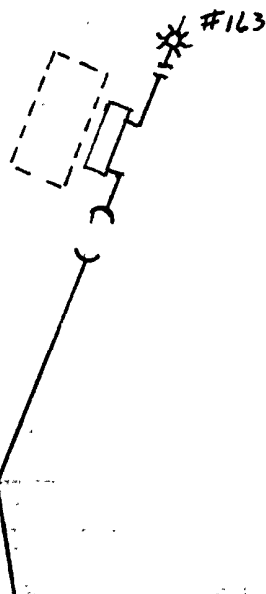
Remarks: Driller said water at 160' Drilled to 180' water at 140' next AM caught water sample. Drilled to 380' hole washing in From large amount of water. Water at 145' in approx 30 min (no water added) Logged to 380' INST 380' of vent pipe with 240' perforated. Slurried Approx 50 sacks of coke.

Rectifier Size: 60 V 30 AAddn'l Depth Depth Credit: -120 ✓Extra Cable: 182 ✓Ditch & 1 Cable: 184 ✓25' Meter Pole: 20' Meter Pole: 10' Stub Pole: 1 ✓

9-20 | Reg | OT

8 | 2

GROUND BED LAYOUT SKETCH



6947

All Construction Completed

Robert Bahrick

(Signature)

32' 66'

Stub Pole Rect

152'

P.R.

underground drip

N

ENGINEERING CALCULATION SHEET
 Form 7-87 (1-77)
 170/12 - 5W18-27-5
 5.5 27-5 47- 53712-19-50-20-64 - ST 2/3 600 = 76 750 MH -
 5.5 27-5 163- 55541-21-50-20-64 - ST 2/3 600 = 76 820 MH -
 u = OK
 u = OK

Diller said water at 160' Drilled to 180' water at 140' next am caught water sample Drilled to 380' hole washing in from hole water cleared out hole - hole made water to 345' (no water added) Logged 380' inst 380' to 5 feet pipe with 240' Per Forated slurred Approx 50 sacks of F coke

- ① 360 - 1.11 - 2.12
- ② 335 - 1.07 - 1.97
- ③ 265 - 1.37 - 2.93
- ④ 255 - 1.63 - 3.45
- ⑤ 245 - 1.67 - 3.35
- ⑥ 235 - 1.71 - 3.56
- ⑦ 210 - 1.47 - 2.71
- ⑧ 200 - 1.07 - 2.36
- ⑨ 190 - 1.42 - 3.10
- ⑩ 180 - 1.38 - 2.92

11.4 V 11.5 A = .99 ohms

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
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EL PASO NATURAL GAS COMPANY
SAN JUAN DIVISION
FARMINGTON, NEW MEXICO
PRODUCTION DEPARTMENT WATER ANALYSIS

Analysis No. 1-10874 Date October 12, 1983
 Operator El Paso Natural Gas Well Name San Juan 27-5 #47 CPS 1701W
 Location SW 18-27-5 County Rio Arriba State New Mexico
 Field Blanco Formation _____
 Sampled From 160 feet

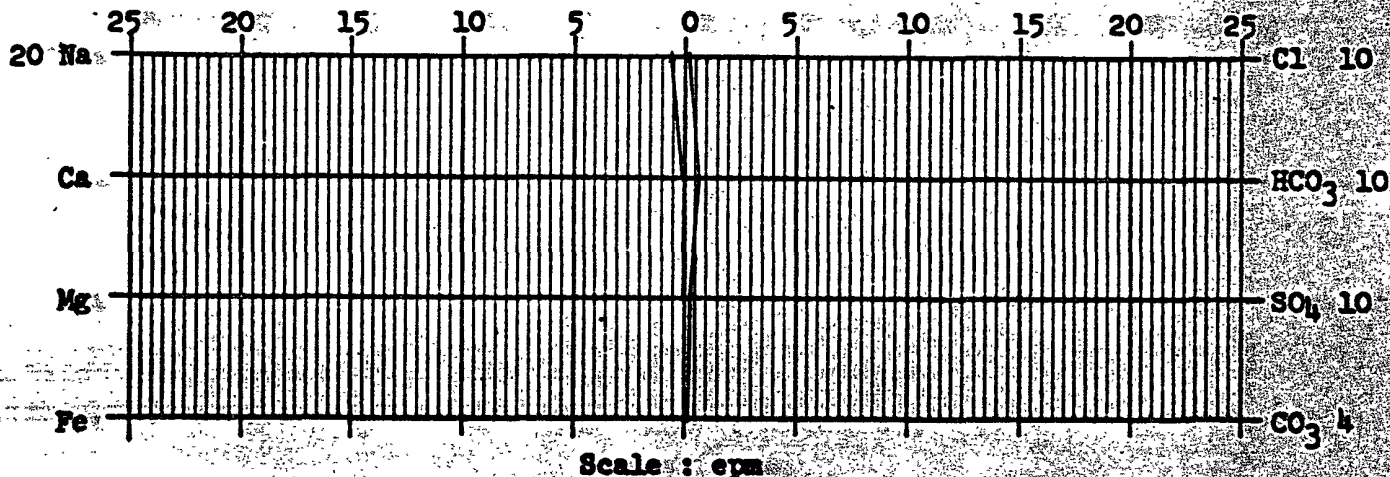
Date Sampled September 20, 1983 By Robert Babnick

Tbg. Press.	Csg.	Surface Csg. Press.
ppm	epm	ppm
Sodium <u>234</u>	<u>10.2</u>	Chloride <u>20</u>
Calcium <u>TRACE</u>	<u>0</u>	Bicarbonate <u>356</u>
Magnesium <u>0</u>	<u>0</u>	Sulfate <u>150</u>
Iron _____	_____	Carbonate <u>19</u>
H ₂ S _____	_____	Hydroxide <u>0</u>

cc: R. A. Ullrich
 E. R. Paulek
 J. W. McCarthy
 J. D. Evans
 W. B. Shropshire
 D. C. Adams
 File _____

Total Solids Dissolved 652
 pH 8.4
 Sp. Gr. 0.9974 At 60°F
 Resistivity 893 ohm-cm at 74°F

Dennis P. Bird *GCK*
 Chemist



S.J. 27-5

47

C.A.S. 1701

DAILY DRILLING REPORT

LEASE _____ WELL NO. _____ CONTRACTOR S. H. RIG NO. 1 REPORT NO. _____ DATE 9-20 1983

MORNING					DAYLIGHT					EVENING				
Driller		Total Men In Crew			Driller		Total Men In Crew			Driller		Total Men In Crew		
FROM	TO	FORMATION	WT-BIT	R.P.M.	FROM	TO	FORMATION	WT-BIT	R.P.M.	FROM	TO	FORMATION	WT-BIT	R.P.M.
					80	80	sandy clay	6 3/4	rock bit					
					80	380	shale + s.s.							
							strings							

BIT NO.		NO. DC	SIZE	LENG.	BIT NO.		NO. DC	SIZE	LENG.	BIT NO.		NO. DC	SIZE	LENG.
SE L NO.		STANDS			SERIAL NO.		STANDS			SERIAL NO.		STANDS		
SIZE		SINGLES			SIZE		SINGLES			SIZE		SINGLES		
TYPE		DOWN ON KELLY			TYPE		DOWN ON KELLY			TYPE		DOWN ON KELLY		
MAKE		TOTAL DEPTH			MAKE		TOTAL DEPTH			MAKE		TOTAL DEPTH		

MUD RECORD			MUD, ADDITIVES USED AND RECEIVED			MUD RECORD			MUD, ADDITIVES USED AND RECEIVED			MUD RECORD			MUD, ADDITIVES USED AND RECEIVED		
Time	Wt.	Vis.				Time	Wt.	Vis.				Time	Wt.	Vis.			

FROM	TO	TIME BREAKDOWN	FROM	TO	TIME BREAKDOWN	FROM	TO	TIME BREAKDOWN

REMARKS -	REMARKS - water came to 140ft of Top Damp 80ft	REMARKS -
	water 160 ft 1 gal min.	
	water 340 ft 15 gal. min	

SIGNED: Toolpusher

D. Alexander

Company Supervisor

Robert J. Bernick