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30-039-20482

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

Operator MERIDIAN OIL Location: Unit NE Sec. 5 Twp 27 Rng 6

Name of Well/Wells or Pipeline Serviced SAN JUAN 28-6 UNIT #170

cps 1283w

Elevation 6716' Completion Date 9/29/78 Total Depth 560' 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. 320'

RECEIVED
MAY 31 1991

OIL CON. DIV.
DIST. 3

Depths gas encountered: N/A

Type & amount of coke breeze used: 47 SACKS

Depths anodes placed: 520', 510', 444', 436', 428', 420', 402', 394', 386', 378', 370'

Depths vent pipes placed: 540'

Vent pipe perforations: 260'

Remarks: gb #1 HOLE CAVED WITH VENT PIPE AND #1 & #2 ANODE IN PLACE. RE-ENTERED WITH

DRILL STEM AND WASHED OUT HOLE TO 480'. FILLED BACK TO 456'.

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.

WELL CASING
CATHODIC PROTECTION CONSTRUCTION REPORT
DAILY LOG

Drilling Log (Attach Hereto). ☐

Completion Date 9-29-78

Well Name 5528-6 #38 + #170		Location NE 5-27-6		CPS No. 1283 W	
Type & Size Bit Used 6-3/4		CONTRACT #2		Work Order No. 52678.19 + 55201.19	
Anode Hole Depth 560-560	Total Drilling Rig Time	Total Lbs. Coke Used 47 BAGS	Lost Circulation Mat'l Used		No. Sacks Mud Used
Anode Depth					
# 1 444	# 2 436	# 3 428	# 4 420	# 5 402	# 6 394
# 7 386	# 8 378	# 9 370	# 10 335		
Anode Output (Amps)					
# 1 2.4	# 2 3.2	# 3 3.6	# 4 2.6	# 5 2.6	# 6 2.0
# 7 3.0	# 8 2.8	# 9 2.8	# 10 3.9		
Anode Depth					
# 11	# 12	# 13	# 14	# 15	# 16
Anode Output (Amps)					
# 11	# 12	# 13	# 14	# 15	# 16
Total Circuit Resistance					
Volts 11.9	Amps 12.8	Ohms .93	No. 8 C.P. Cable Used		No. 2 C.P. Cable Used

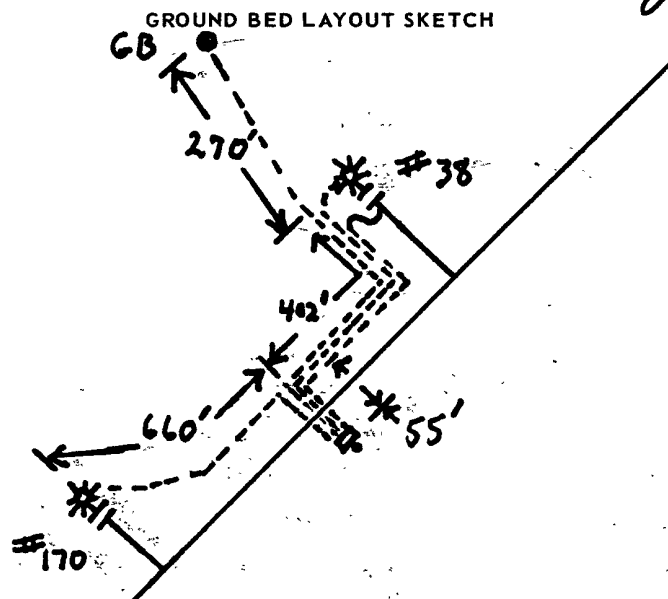
Remarks: Driller said water 320' drilled + logged 560-hole caved
AFTER INST OF ANODES + VENT PIPE (520' + 510') ABANDONED AND
WASHED OUT HOLE WITH DRILL STEM + SLURRIED 47 BAGS
OF COKE WATER EST. APPROX 10 G.P.M. 1 1/2" X 60" Duriron
ST #38-600'SW = .73 ST #170-600'N = .79

Hole depth = +60
Cable + Ditch = 1387
EXTRA cable = 969

20 FT meter Loop Pole
60V 30A RECT

All Construction Completed

Robert J. Balnick
(Signature)



DISTRIBUTION:

WHITE - Division Corrosion Office
YELLOW - Area Corrosion Office
PINK - Originator File

6714

El Paso Natural Gas Company
ENGINEERING CALCULATIONSheet: 1 of 1
Date: 9-27-78
By: RLB
File: 1283 W1283 W
55 28-6 #38
55 28-6 #170N 5-27-6
52678.19
55201.195 + 1/2 600' SW = .73
5 + 1/2 600' N = .79

MW	gals/mol
18.04	C1 6.4
30.07	C2 10.12
44.10	C3 10.42
58.12	iC4 12.38
58.12	nC4 11.93
72.15	iC5 13.85
72.15	nC5 13.71
86.18	iC6 15.50
86.18	C6 15.57
100.21	iC7 17.2
100.21	C7 17.46
114.23	C8 19.39
28.05	C2 9.64
42.08	C3 9.67

340-11

348-9

396-8

394-8

402-6

420-5

424-4

434-3

444-2

444-2

451-1

MW	MISC	gals/mol
32.00	O2	3.37
28.01	CO	4.19
44.01	CO2	6.38
64.06	SO2	5.50
34.08	H2S	5.17
28.01	N2	4.16
2.02	H2	3.38

451-1

444-2

437-2

430-2

423-2

320-.9

- .8

330-1.6

- 1.6 10

340-.8

- .5

350-.5

- .5

360-.5

- .7

370-1.4

- 1.7

380-1.3

- 1.5

390-1.7

- 1.4

400-1.0

- .9

410-.4

- .3

420-1.2

- 1.8

430-2.0

- 2.0

440-1.8

- 1.6

450-1.3

- .7

460-.4

- .3

470-.4

- .7

480-.4

- .4

490-.4

- .2

500-.5

- .4

510-1.1

- 1.1

520-1.0

- .9

530-.8

- .8

540-.9

- .8

550-.7

- .6

560-.6

- .5

570-.5

- .4

580-.4

- .3

590-.3

- .2

600-.2

- .1

610-.1

- .0

620-.0

- .0

630-.0

- .0

640-.0

- .0

650-.0

- .0

660-.0

- .0

670-.0

- .0

680-.0

- .0

DRILLER SAID WATER AT 320'
540' VENT PIPE 260' PERFORATED
DRILLED 560 LOGGED 560
HOLE CAVED AFTER 1+2+ VENT
PIPE IN HOLE WHILE COKING
REENTERED HOLE WITH DRILL
STEM & WASHED OUT HOLE
TO 480' FILLED BACK TO
456' SO SET #1 ANODE AT 444'

Hole Depth: + 60

Cable + Pitch = 1387

EXTRA CABLE = 969

20 FT meter Loop

60V 30A RECT

① 520-1.6	① 451	① 444-1.5-2.4
② 510-1.1	② 444	② 436-2.0-3.2
③ 450-1.4	③ 434	③ 428-2.3-3.6
④ 440-	④ 427	④ 420-1.3-2.6
⑤ 430-	⑤ 420	⑤ 402-1.1-2.6
⑥ 420-	⑥ 402	⑥ 394-1.4-2.0
⑦ 410-	⑦ 394	⑦ 386-2.0-3.0
⑧ 390-	⑧ 386	⑧ 378-1.6-2.8
⑨ 380-	⑨ 378	⑨ 370-1.8-2.8
⑩ 370-	⑩ 370	⑩ 335-1.8-3.9

TOTAL 11.9 V 12.8 A = .93 ohms

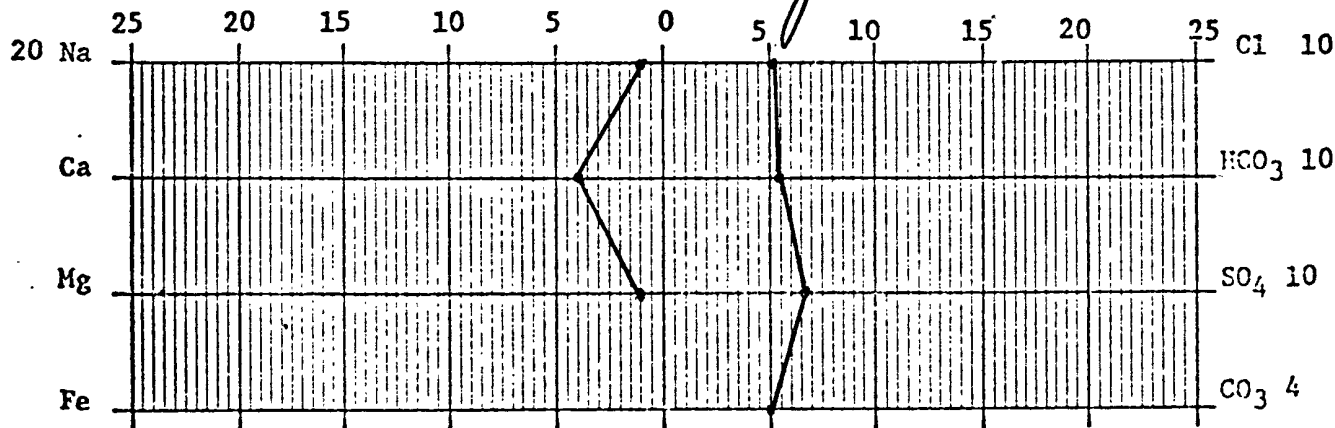
EL PASO NATURAL GAS COMPANY
SAN JUAN DIVISION
FARMINGTON, NEW MEXICO
PRODUCTION DEPARTMENT WATER ANALYSIS

Analysis No. 1-9363 Date 11-8-78
Operator EPNG Well Name SAN JUAN 28-6 #38 & #170
Location NE 5-27-6 County RIO ARRIBA State NM
Field _____ Formation _____
Sampled From C. P. S. 1283-W
Date Sampled _____ By WTR @ 320' 10GPM

Tbg. Press. _____	Csg. Press. _____	Surface Csg. Press _____
ppm	epm	ppm epm
Sodium <u>384</u>	<u>17</u>	Chloride <u>56</u> <u>2</u>
Calcium <u>88</u>	<u>4</u>	Bicarbonate <u>220</u> <u>4</u>
Magnesium <u>14</u>	<u>1</u>	Sulfate <u>820</u> <u>17</u>
Iron <u>PRESENT</u>		Carbonate <u>0</u> <u>0</u>
H ₂ S <u>ABSENT</u>		Hydroxide <u>0</u> <u>0</u>

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

Total Solids Dissolved 1475
pH 7.1
Sp. Gr. 1.0022 at 60°F
Resistivity 490 ohm-cm at 73 °F
Joe Barnett RZE
Chemist



Scale: epm

DAILY DRILLING REPORT

LEASE		WELL NO.		CONTRACTOR		RIG NO.		REPORT NO.		DATE							
1283W		1283W		O'Brien Drilling		1				Sept. 27 1978							
MORNING					DAYLIGHT					EVENING							
Driller					Driller					Driller							
Total Men In Crew					Total Men In Crew					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.			
BIT NO.		NO. DC		SIZE	LENG.	BIT NO.		NO. DC		SIZE	LENG.	BIT NO.		NO. DC		SIZE	LENG.
SER. NO.		STANDS				SER. NO.		STANDS				SER. 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					
0	3	Surface			170	175	Shale			255	325	Sandstone (Water)					
3	40	Sandstone (Damp)			175	190	Sandstone			325	335	Shale					
40	70	Shale			190	200	Shale Sandy			335	375	Sandstone					
7	80	Sandstone			200	215	Shale			375	405	Shale					
80	115	Shale			215	245	Sandstone			405	420	Sandstone					
115	170	Sandstone (Damp)			245	255	Shale			420	450	Shale					
REMARKS -					REMARKS -					REMARKS -							
450 - 475 Sandstone										Drilled 6 3/4 hole to 560							
475 - 480 Shale										Logged to 560							
480 - 505 Sandstone (Damp)										Est. water 10 6 PM							
505 - 520 Shale																	
520 - 560 Sandstone																	

SIGNED: Toolpusher

Butch Benoit

____ Company Supervisor