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30-045-23698

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

Operator MERIDIAN OIL Location: Unit SE Sec. 20 Twp 28 Rng 8

Name of Well/Wells or Pipeline Serviced FLORANCE C #2A

cps 1557w

Elevation 5760 Completion Date 9/14/81 Total Depth 300' Land Type* N/A

Casing, Sizes, Types & Depths 10' OF 8" CASING

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. 80', 270' SAMPLE TAKEN

Depths gas encountered: N/A

Type & amount of coke breeze used: 3600 lbs.

Depths anodes placed: 265', 255', 245', 235', 225', 215', 205', 195', 185', 155'

Depths vent pipes placed: 300'

Vent pipe perforations: 240'

Remarks: gb #1

RECEIVED
MAY 31 1991
OIL CON. DIV.
DIST. 3

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). ☐

2 x 60 Anodes

Completion Date 9-14-81

Well Name FLORANCE C #2A		Location SE 20-28-8		CPS No. 1557-W	
Type & Size Bit Used 6 3/4				Work Order No. 57658-21	
Anode Hole Depth 300' logged 300'	Total Drilling Rig Time		Total Lbs. Coke Used 3600	Lost Circulation Mat'l Used	
Anode Depth	# 1	# 2	# 3	# 4	# 5
	265	255	245	235	225
Anode Output (Amps)	# 1	# 2	# 3	# 4	# 5
	4.3	5.2	5.0	5.5	5.2
Anode Depth	# 6	# 7	# 8	# 9	# 10
	215	205	195	185	185
Anode Output (Amps)	# 6	# 7	# 8	# 9	# 10
	5.6	5.3	5.1	4.3	3.1
Anode Depth	# 11	# 12	# 13	# 14	# 15
Anode Output (Amps)	# 11	# 12	# 13	# 14	# 15
Total Circuit Resistance	Volts		Amps		Ohms
	11.9		20.8		.57
No. 8 C.P. Cable Used			No. 2 C.P. Cable Used		

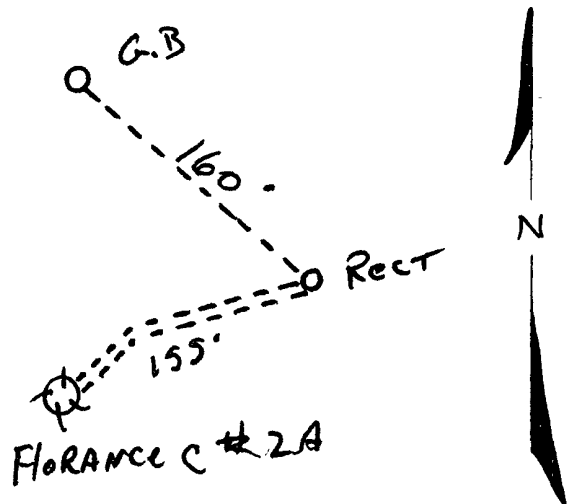
Remarks: **DRILLER SAID WET AT 80', ~~300'~~ WATER STANDING AT 35' MONDAY MORNING. INSTALLED 300' OF 1" VENT PIPE, PERFORATED 240' OF VENT PIPE. STURIED 3600 LBS OF COKE. HIT ANOTHER WATER SAND AT 280'. HAD TO SET 10' OF 8" PVC CASING. G.D. BED MAKING WARE. STATIC 600' N, 80**

1 40V 16A RECT ✓
1 20' METAL POLE ✓
DITCH + 1 CABLE - 315' ✓
EXTRA CABLE - 175' ✓
HOLE DEPTH - 200' ✓
SET ~~10'~~ OF 8" ~~PIPE~~ CASING 1 HR. ✓
D.C.

All Construction Completed

Miller Knight Jr.
(Signature)

GROUND BED LAYOUT SKETCH



Time	Req	O.T
9-14-81	8	3 ✓

DISTRIBUTION:

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

5760

El Paso Natural Gas Company
ENGINEERING CALCULATIONSheet: 1 of 1
Date: 9-14-8
By: WK
File: _____FLORANCE C # 2A
SE 20-28-8
CPS 1557-WSTATIC 600' N .80
W/O 57458-21
UNION OK

MW	gals/mol
16.04	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

1 40V 16A Rect
1 20' meter Pole
Ditch + 1 cable - 315'
EXTRA cable - 175'
Hole Depth - 200'
Set 10' of 8" PVC 1 hr.

DRILLER Saw WPT AT 80'
WATER STANDING AT 35' MONDAY M.
INSTALLED 300' of 1" VENT PIPE
PERFORATED 240' of VENT PIPE
STURPED 3600' lbs of COKE
GOT WATER Sample HIT
ANOTHER water sample AT 270'
Gd. Bed making A LOT OF
WATER.

80	1.30	05	3.50 ①
85	1.30	10	3.70
90	1.30	15	3.90 ⑥
95	1.20	20	3.30
100	1.00	25	3.80 ⑤
05	1.20	30	3.50
10	1.30	35	4.00 ④
15	1.60	40	3.90
20	1.30	45	3.60 ③
25	1.40	50	3.70
30	1.40	55	3.50 ②
35	1.40	60	3.40
40	1.30	65	2.80 ①
45	1.30	70	1.80
50	1.50	75	1.40
55	2.30 ⑩	80	1.30
60	1.40	85	1.20
65	1.40	90	1.20
70	1.50	95	1.30
75	1.70	300	1.30 TD
80	1.90	05	
85	2.80 ⑦	10	
90	3.00	15	
95	3.60 ⑧	20	
200	3.30	25	

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

① 265	3.10	4.30
② 255	3.60	5.20
③ 245	3.70	5.00
④ 235	4.00	5.50
⑤ 225	3.80	5.20
⑥ 215	4.00	5.60
⑦ 205	3.60	5.30
⑧ 195	3.60	5.10
⑨ 185	2.80	4.30
⑩ 155	2.30	3.10

11.9 V
20.8 A
.57 Ω

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

Analysis No. 1-10324 Date 9-18-81
Operator El Paso Natural Gas Well Name Florance C #2A CPS 1557 W
Location SE 20-28-8 County San Juan State New Mexico
Field Blanco Formation _____
Sampled From 80' & 270'

Date Sampled 9-14-81 By Willie Knight

Tbg. Press.	Csg.	Surface Csg. Press.
ppm	epm	ppm
Sodium <u>1480</u>	<u>64.4</u>	Chloride <u>20</u>
Calcium <u>186</u>	<u>9.3</u>	Bicarbonate <u>63</u>
Magnesium <u>9</u>	<u>0.7</u>	Sulfate <u>3,500</u>
Iron _____	_____	Carbonate <u>0</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

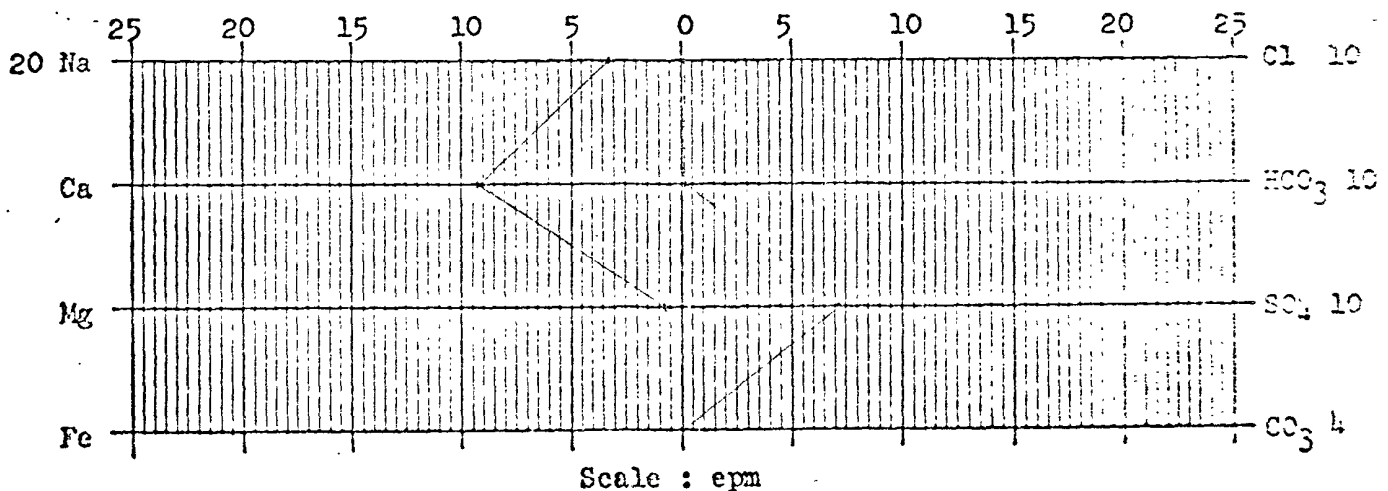
HCO₃ taken to pH 4.0

Total Solids Dissolved 4,922
pH 7.6
Sp. Gr. 1.0014 At _____ 60°F
Resistivity 161 ohm-cm at _____ 74°F

Dennis P. Bird

Chemist

WS



LEASE FLORENCE "C" #2A WELL NO. 100 CONTRACTOR CPS RIG NO. 1557-W REPORT NO. 9-14 DATE 1981

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.

BIT NO.		NO. DC	SIZE	LENG.	BIT NO.		NO. DC	SIZE	LENG.	BIT NO.		NO. DC	SIZE	LENG.
STANDS		NO. DC	SIZE	LENG.	STANDS		NO. DC	SIZE	LENG.	STANDS		NO. DC	SIZE	LENG.
SINGLES		TOTAL DEPTH			SINGLES		TOTAL DEPTH			SINGLES		TOTAL DEPTH		
DOWN ON KELLY		TOTAL DEPTH			DOWN ON KELLY		TOTAL DEPTH			DOWN ON KELLY		TOTAL DEPTH		
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	20	SHALE	265	300	SHALE SANDY			
20	80	SAND						
80	155	SHALE SANDY						
155	160	SHALE						
160	180	SHALE SANDY						
180	265	SHALE						

REMARKS -	REMARKS -	REMARKS -
WATER @ 80'		
DRILLED 300' T.D. 300'		
SET 10' CASING 1 HR RIG TIME		

SIGNED: Toolpusher

Carl J. Jolly

Company Supervisor

Ray E. M. M.