

#24 PC 30-039-06773
#166 DK 30-039-06803

CPS 706

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

Operator UNION OIL COMPANY OF CALIFORNIA Location: Unit Sec. 32 Twp 27N Rng 6W

Name of Well/Wells or Pipeline Serviced Rincon #24 PC Rinco #166 DK

Elevation 6561 Completion Date 11/4/65 Total Depth 260' Land Type* S

Casing, Sizes, Types & Depths None

If Casing is cemented, show amounts & types used None

If Cement or Bentonite Plugs have been placed, show depths & amounts used
None

Depths & thickness of water zones with description of water when possible:

Fresh, Clear, Salty, Sulphur, Etc. 85' - 100' Deep 15' Thick

Depths gas encountered: NA

Type & amount of coke breeze used: type unknown 3740 lbs

Depths anodes placed: 115' to 225'

Depths vent pipes placed: 137'

Vent pipe perforations: ?

Remarks: El Paso Natural Gas was the operator at the time this ground bed was installed.

GB#1 GB#2 First ground bed installed at this location.

GB#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

Item 23
4 3/4" Drag = 180' - #9

Date NOV-4-1965

Well Name <u>Rincon #24 & #166</u>			CPS No. <u>706W</u>		
Location <u>SW 32-27-6</u>			Work Order No. <u>184-52497-50-20</u>		
Anode Hole Depth <u>260</u>	Total Drilling Rig Time <u>18 1/2 Hrs</u>	Type & Size Bit Used <u>7 7/8 - 92824 = 260</u>		No. Sacks Mud Used <u>1</u>	
No. Sacks Lost Circulation Mat'l Used <u>0</u>	Anode Depth <u>#1 133</u> <u>#2 225</u>	<u>#8 127</u> <u>#2 219</u>	<u>9 115</u> <u>#3 213</u>	<u>#4 207</u>	<u>#5 145</u> <u>#6 139</u>
Total Lbs. Coke Used <u>3740</u>	Anode Output (Volts) <u>#1 4.8</u> <u>#2 3.0</u>	<u>8 4.5</u> <u>#2 3.5</u>	<u>9 3.2</u> <u>#3 3.0</u>	<u>#4 2.5</u>	<u>#5 3.8</u> <u>#6 4.2</u>
Total Circuit Resistance Volts <u>12.4</u>	Amps <u>10.5</u>	Ohms <u>1.18 ~</u>	No. Ft. Surface Cable Conduit <u>600'</u>		

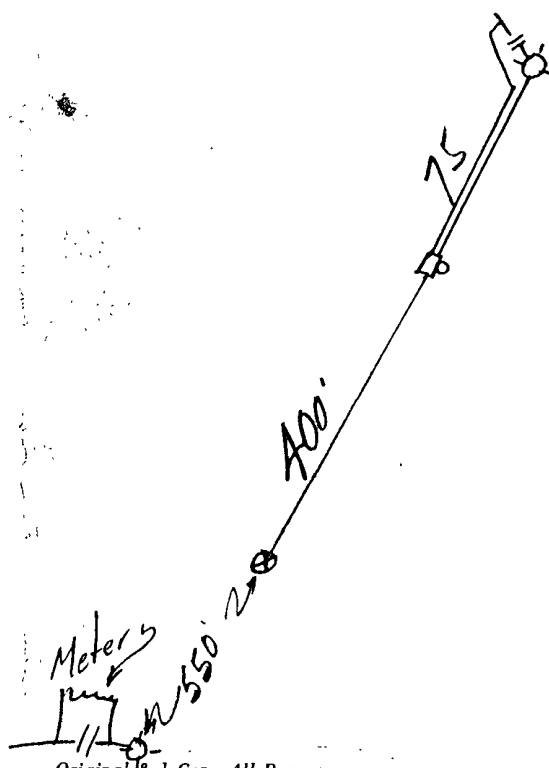
Drilling Log (Attach Hereto). ☐

Remarks: Static R's 600' SE # Rincon 166 = .70
Static R's 600' E Rincon # 24 = .60
Install Good All Rectifier 30V 20A (2NEG) Ser. # 65C6697
4 lbs Chemical to Gnd Bed.
3/4" Plastic Hose to #8 Anode = 137'

All Construction Completed

Samuel
(Signature)

GROUND BED LAYOUT SKETCH



2213' #8 wire



DAILY DRILLING REPORT

WM #9 180' 174

EASE WELL NO. 706W CONTRACTOR S.E. Wilson RIG NO. D-6 REPORT NO. DATE 11-2-65 19

MORNING					DAYLIGHT					EVENING				
Driller <i>Drives</i> Total Men In Crew <i>2</i>					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.
0	60	Sandstone			100	160	Shale							
20	80	Comp Sandstone			160	210	Sandstone							
30	85	D. H. Sandstone			210	260	Sandy Shale							
5	100	Water Sand												

NO. <i>92824X</i>		NO. DC	SIZE	LENG.	BIT NO.		NO. DC	SIZE	LENG.	BIT NO.		NO. DC	SIZE	LENG.
NO. <i>73</i>		STANDS			SERIAL NO.		STANDS			SERIAL NO.		STANDS		
E <i>1 1/2</i>		SINGLES			SIZE		SINGLES			SIZE		SINGLES		
E <i>260'</i>		DOWN ON KELLY			TYPE		DOWN ON KELLY			TYPE		DOWN ON KELLY		
		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.			
			<i>1 Mud</i>														

FROM	TO	TIME BREAKDOWN	FROM	TO	TIME BREAKDOWN	FROM	TO	TIME BREAKDOWN
			<i>Total rig 19 1/2</i>					<i>11-65</i>
			<i>OHS</i>					<i>11-65</i>
								<i>11-65</i>
								<i>OHS 5</i>

MARKS	REMARKS	REMARKS
<i>11-2-65</i>	<i>left last loc. at 1200</i>	<i>left last loc. at 1200</i>
<i>1-3-65</i>	<i>ground bed drilled 180' with rig</i>	<i>ground bed drilled 180' with rig</i>
<i>1-4-65</i>	<i>left yard at 600 moved rig 7:15</i>	<i>left yard at 600 moved rig 7:15</i>
	<i>left loc. at 1200</i>	<i>left loc. at 1200</i>
	<i>OHS 1200</i>	

SIGNED: Toolpusher _____ Company Supervisor _____

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

Operator Union Oil Company of California Location: Unit Sec. 32 Twp 27N Rng 6W

Name of Well/Wells or Pipeline Serviced Rincon #24 PC Rincon #166 DK

Elevation 5671' Completion Date 7/21/1970 Total Depth 750' Land Type* S

Casing, Sizes, Types & Depths None

If Casing is cemented, show amounts & types used None

If Cement or Bentonite Plugs have been placed, show depths & amounts used
None

Depths & thickness of water zones with description of water when possible:
Fresh, Clear, Salty, Sulphur, Etc. 335' to 370' 35' thick

Depths gas encountered: NA

Type & amount of coke breeze used: type unknown 10,800 lbs

Depths anodes placed: 465' to 710'

Depths vent pipes placed: 400'

Vent pipe perforations: ?

Remarks: El Paso Natural Gas Co. was the operator at the time this ground bed was installed.
Second ground bed installed at this location.

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.

RECEIVED

MAY 14 1990

OIL CON. DIV. 1

DIST. 3

WELL CASING
CATHODIC PROTECTION CONSTRUCTION REPORT
DAILY LOG

Drilling Log (Attach Hereto) ☐

GADDED NO 2
Contract By CPS

Completion Date 7-21-70

Well Name <u>KINCON #24 & 166</u>		Location <u>SW 32-27-6</u>		CPS No. <u>706W</u>	
Type & Size Bit Used <u>6 3/4</u>		Work Order No. <u>52497-50-20</u> <u>184-54256</u>			
Anode Hole Depth <u>750'</u>	Total Drilling Rig Time	Total Lbs. Coke Used	Lost Circulation Mat'l Used	No. Sacks Mud Used	
Anode Depth					
# 1 <u>710</u>	# 2 <u>700</u>	# 3 <u>690</u>	# 4 <u>630</u>	# 5 <u>620</u>	# 6 <u>530</u>
# 7 <u>520</u>	# 8 <u>490</u>	# 9 <u>475</u>	# 10 <u>465</u>		
Anode Output (Amps)					
# 1 <u>4.3</u>	# 2 <u>4.3</u>	# 3 <u>3.9</u>	# 4 <u>4.9</u>	# 5 <u>4.9</u>	# 6 <u>3.2</u>
# 7 <u>3.2</u>	# 8 <u>2.9</u>	# 9 <u>3.8</u>	# 10 <u>3.8</u>		
Anode Depth					
# 11	# 12	# 13	# 14	# 15	# 16
<u>Output Readings Taken 7-31-70</u>					
Anode Output (Amps)					
# 11	# 12	# 13	# 14	# 15	# 16
# 17	# 18	# 19	# 20		
Total Circuit Resistance		No. 8 C.P. Cable Used		No. 2 C.P. Cable Used	
Volts <u>11.8</u>	Amps <u>10.2</u>	Ohms <u>1.15</u>			

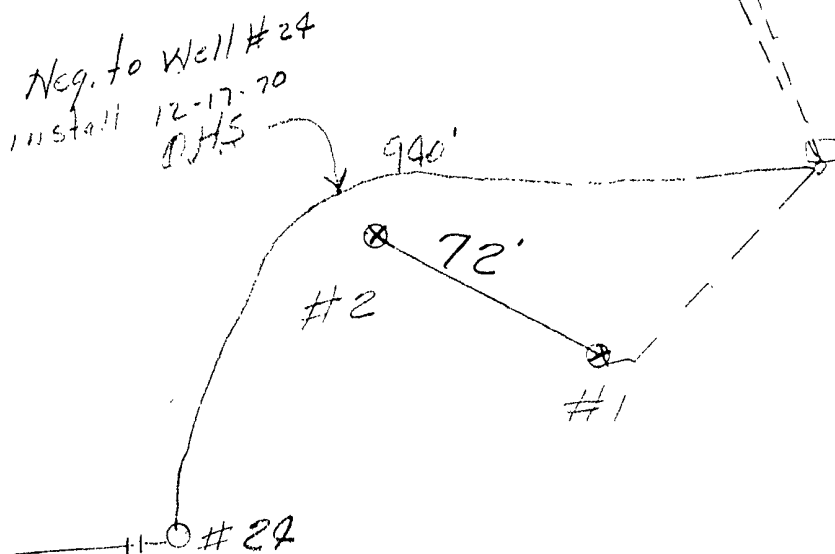
Remarks: Wet at 350 Drill with Air to 360'
Anodes 3 & 8 are single - all others Dual -
Hose to No 1 Anode, Perforated 400'
Pump 93 socks of coke 7-21-70 - Put in Dry 15 socks 7-31-70
Lost 400' Filler Hose 1 1/2" in Hole Moved Rig Back on
hole & Drilled out

9 Days on hole

Construction Completed

Arrels
(Signature)

GROUND BED LAYOUT SKETCH



WELL TYPE GROUNDED DATA

DATA SHEET NO. 1094

COMPANY EL PASO JOB NO. 7-16-64 DATE 7-16-64
 WELL 106-40 PIPELINE 106-40
 LOCATION: SEC. 34 TWP. 37 RGE. 1 CO. R. 3 GREEN STATE N. MEX
 ELEV. 5500 FT: ROTARY C-750 FT: CABLE TOOL ✓ FT: CASING ✓ FT.
 GROUNDED: DEPTH 20 FT. DIA. 1 1/2 IN. GAS ✓ LBS ANODES 10 600-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	
0	SURFACE SOIL (0-4)							
10	SANDSTONE (22-33%)							
20								
30								
40								
50								
60								
70								
80								
90								
100								
110								
120								
130								
140								
150								
160								
170								
180								
190								
200								
210								
220								
230								
240								
250								
260								
270								
280								
290								
300								

GROUNDED RESISTANCE: (1) VOLTS _____ + AMPS _____ OHMS

(2) VIBROGROUND _____ OHMS



cathodic protection service

HOUSTON TEXAS

WELL TYPE GROUNDING DATA

DATA SHEET NO. 724

COMPANY _____ JOB No. _____ DATE: _____

WELL: _____ PIPELINE: _____

LOCATION: SEC _____ TWP. _____ RGE. _____ CO _____ STATE _____

ELEV. _____ FT. ROTARY _____ FT. CABLE TOOL _____ FT. CASING _____ FT.

GROUNDED: DEPTH _____ FT. DIA _____ IN. GAS _____ LBS. ANODES _____

DEPTH, FT.	DRILLER'S LOG	DRILL PIPE TO STRUCTURE			EXPLORING ANODE TO STRUCTURE			DEPTH, TOP OF ANODES
		E	I	R	E	I	R	
22.0								
30								
40								
50								
60								
70								
80								
90								
100								
110								
120								
130								
140								
150								
160								
170								
180								
190								
200								
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700								
710								
720								
730								
740								
750								
760								
770								
780								
790								
800								
810								
820								
830								
840								
850								
860								
870								
880								
890								
900								
910								
920								
930								
940								
950								
960								
970								
980								
990								
1000								

GROUNDED RESISTANCE (1) VOLTS _____ AMPERS _____ OHMS

(2) VIBROGROUND _____ OHMS



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HOUSTON TEXAS

WELL TYPE GROUNDED DATA

DATA SHEET NO 3084

COMPANY _____ JOB NO. _____ DATE: _____
 WELL: _____ PIPELINE: _____
 LOCATION: SEC. _____ TWP. _____ RCE. _____ CO. _____ STATE _____
 ELEV. _____ FT: ROTARY _____ FT: CABLE TOOL _____ FT: CASING _____ FT.
 GROUNDED: DEPTH _____ FT. DIA. _____ IN. CAG _____ LBS ANODES _____

DEPTH, FT.	DRILLING LOG	DRILL PIPE TO STRUCTURE			EXPLODING ANODE TO STRUCTURE			DEPTH, TOP OF ANODES
		C	I	R	E	I	R	
4.00						0.98		
5.00						1.00		
6.00						1.00		
7.00						1.00		
8.00						1.00		
9.00						1.00		
10.00						1.00		
11.00						1.00		
12.00						1.00		
13.00						1.00		
14.00						1.00		
15.00						1.00		
16.00						1.00		
17.00						1.00		
18.00						1.00		
19.00						1.00		
20.00						1.00		
21.00						1.00		
22.00						1.00		
23.00						1.00		
24.00						1.00		
25.00						1.00		
26.00						1.00		
27.00						1.00		
28.00						1.00		
29.00						1.00		
30.00						1.00		
31.00						1.00		
32.00						1.00		
33.00						1.00		
34.00						1.00		
35.00						1.00		
36.00						1.00		
37.00						1.00		
38.00						1.00		
39.00						1.00		
40.00						1.00		
41.00						1.00		
42.00						1.00		
43.00						1.00		
44.00						1.00		
45.00						1.00		
46.00						1.00		
47.00						1.00		
48.00						1.00		
49.00						1.00		
50.00						1.00		
51.00						1.00		
52.00						1.00		
53.00						1.00		
54.00						1.00		
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57.00						1.00		
58.00						1.00		
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60.00						1.00		
61.00						1.00		
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64.00						1.00		
65.00						1.00		
66.00						1.00		
67.00						1.00		
68.00						1.00		
69.00						1.00		
70.00						1.00		
71.00						1.00		
72.00						1.00		
73.00						1.00		
74.00						1.00		
75.00						1.00		
76.00						1.00		
77.00						1.00		
78.00						1.00		
79.00						1.00		
80.00						1.00		
81.00						1.00		
82.00						1.00		
83.00						1.00		
84.00						1.00		
85.00						1.00		
86.00						1.00		
87.00						1.00		
88.00						1.00		
89.00						1.00		
90.00						1.00		
91.00						1.00		
92.00						1.00		
93.00						1.00		
94.00						1.00		
95.00						1.00		
96.00						1.00		
97.00						1.00		
98.00						1.00		
99.00						1.00		
100.00						1.00		

GROUNDED RESISTANCE: (1) VOLTS _____ AMPS _____ OHMS

(2) MICROGROUND _____ OHMS



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HOUSTON TEXAS

DATA SHEET NO. 4054

PIPELINE

LOCATION: SEC _____ TWP. _____ RGE. _____ CO. _____ STATE _____

ELEV. _____ FT: ROTARY _____ FT: CABLE TOOL _____ FT: CASING _____ FT

GROUNDED: DEPTH _____ FT. DIA. _____ IN. QAB _____ LBS. ANODES _____

GROUNDING RESISTANCE: (1) VOLTS 11.8 + AMPS 10.2 = _____ OHMS

(2) VIDEOGROUND 1.15 OHMS



collective protection services

HOUSTON TEXAS

LOWRY CAMP

N
S

#166

RECT. - 30V-20A

GNP. BED
8 ANODES

← 675' →

BLUFF

MTR BOX

#24

FLO-LINE RETURN

CATHODIC PROTECTION

EL PASO NATURAL GAS COMPANY

RINCON #24 & #166 CPS-706-W

5W32-27-6

SCALE	NONE	DATE	5-25-65	No.	23
DRAWN BY	846	CHECKED BY			

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

Operator Union Oil Company of California Location: Unit Sec. 32 Twp 27N Rng 6W

Name of Well/Wells or Pipeline Serviced Rincon #24 PC Rincon #166 DK

Elevation 6561' Completion Date 12/3/71 Total Depth 720' Land Type* S

Casing, Sizes, Types & Depths None

If Casing is cemented, show amounts & types used None

If Cement or Bentonite Plugs have been placed, show depths & amounts used None

Depths & thickness of water zones with description of water when possible:

Fresh, Clear, Salty, Sulphur, Etc. 350'-370' 20' thick

Depths gas encountered: NA

Type & amount of coke breeze used: type unknown 11,700 lbs

Depths anodes placed: 465' to 670'

Depths vent pipes placed: 670'

Vent pipe perforations: 500'

Remarks: El Paso Natural Gas Co. was the operator at the time this ground bed was installed.

Third ground bed installed on this location.

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

QFS
Re-drill To meet 8946-20
for 520

Drilling Log (Attach Hereto). ☐

Completion Date 12/3/71

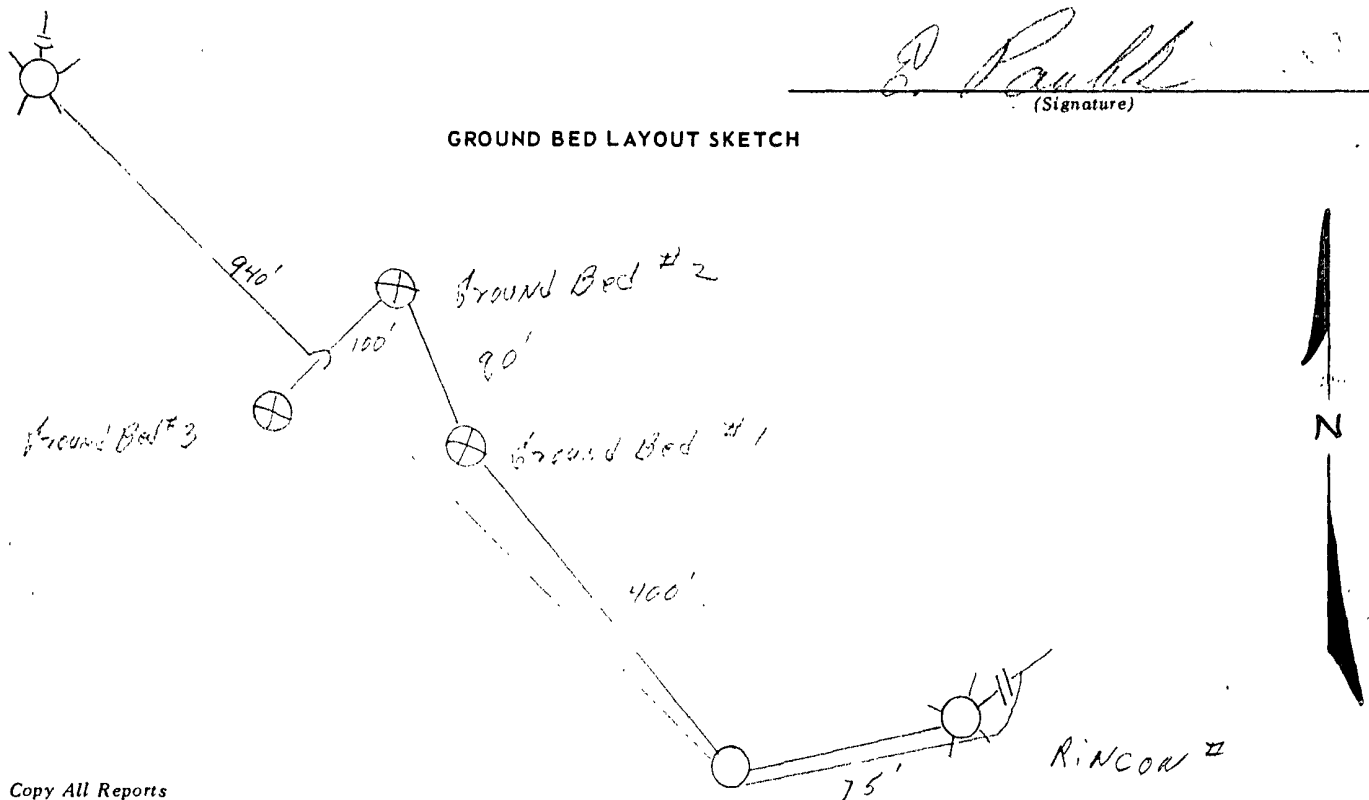
Well Name <u>RINCON 24 of 166</u>		Location <u>SW 32 - 27N - 6W</u>		CPS No. <u>706W</u>	
Type & Size Bit Used <u>6 3/4</u>		Work Order No. <u>52497 - 50 - 20</u>		No. Sacks Mud Used <u>184 - 5256 50 - 20</u>	
Anode Hole Depth, <u>720</u>	Total Drilling Rig Time	Total Lbs. Coke Used <u>11,700</u>	Lost Circulation Mat'l Used		No. Sacks Mud Used
Anode Depth					
#1 <u>670</u>	#2 <u>612</u>	#3 <u>604</u>	#4 <u>596</u>	#5 <u>528</u>	#6 <u>520</u>
#7 <u>512</u>	#8 <u>504</u>	#9 <u>473</u>	#10 <u>465</u>		
Anode Output (Amps)					
#1 <u>2.0</u>	#2 <u>3.3</u>	#3 <u>4.2</u>	#4 <u>3.6</u>	#5 <u>2.5</u>	#6 <u>3.3</u>
#7 <u>3.0</u>	#8 <u>2.1</u>	#9 <u>2.6</u>	#10 <u>2.7</u>		
Anode Depth					
#11 <u>457</u>	#12 <u>445</u>	#13	#14	#15	#16
#17	#18	#19	#20		
Anode Output (Amps)					
#11 <u>2.6</u>	#12 <u>2.1</u>	#13	#14	#15	#16
#17	#18	#19	#20		
Total Circuit Resistance	No. 8 C.P. Cable Used		No. 2 C.P. Cable Used		
Volts <u>12.3</u>	Amps <u>10.9</u>	Ohms <u>1.13</u>	<u>116'</u>		

Remarks: Drilllog said good water @ 370' VENT Hase Perforated
500' To #1 Anode. CPS. A-drill on 1970 CONTRACT
PUMPED 68 Bags COVERED ALL ANODES COMPLETED
By slurry 45 Bags.

All Construction Completed

E. Paulk
(Signature)

GROUND BED LAYOUT SKETCH



706W
CPS 12111 ON 1970 CONTRACT

Driller said water @ 370

MW	gas/mol
16	C
20	C ₂
44	C ₃
58	IC ₄
72	NC ₄
86	IC ₅
100	NC ₅
114	IC ₆
128	NC ₆
142	IC ₇
156	NC ₇
170	IC ₈
184	NC ₈
198	IC ₉
212	NC ₉
226	IC ₁₀
240	NC ₁₀

MISC		
MW		gas/mol
44	CO ₂	6.38
34	H ₂ S	5.17
28	N ₂	4.16
1	H ₂	1.18

350		20	1.85	9.0			
60		30	1.22	7.0			
70	.95	40	.65				
	.60		.62		Depth	Water	CDK
80	.52	50	.60		1 620	1.40	2.0
	.48		.57		2 612	1.20	3.3
90	.48	60	.57		3 604	2.0	4.2
	.48		.52		4 596	1.44	3.5
400	.52	70	.53		5 528	1.33	2.5
	.50		1.12		6 520	1.54	3.3
10	.50	80	.77		7 512	1.25	3.0
	.54		.85		8 504	1.02	2.1
20	.63	90	.98		9 473	1.35	2.6
	.67		1.14		10 455	1.17	2.7
30	.75	100	2.0		11 457	1.28	2.6
	.55		2.0		12 445	1.15	2.1
40	.80	10	1.84				
	1.23	0	1.10				
50	1.22	10	.45		12.3V	10.9	1.13 R
	1.42		.70				
60	1.30	20	.70				
	1.47		.62				
70	1.54	30	.67				
	1.14		.80				
80	1.05	40	.70				
	.96		.72				
90	.88	50	.66				
	.82	0	1.02				
500	.84	0	1.42				
	1.10	0	1.26				
10	1.40	80	.65				
	1.75	643	1.50	Bottom			

Pumped 68 Bags

DAILY DRILLING REPORT

LEASE *Pincen*WELL NO. *24*CONTRACTOR *Monow*

RIG NO.

REPORT NO.

DATE *11-27-71*

1971

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.	FROM	TO	FORMATION	WT-BIT	R.P.M.	FROM	TO	FORMATION	WT-BIT	R.P.M.	FROM	TO	FORMATION	WT-BIT	R.P.M.
0	3	surface clay			450	450	sandy shale			600	650	sandy shale																	
3	350	dry sand stone			450	500	sand			680	720	sand																	
350	370	hard (water)			500	570	sandy shale																						
370	450	sand			570	600	sand																						

BIT NO.		NO. DC	SIZE	LENG.	BIT NO.		NO. DC	SIZE	LENG.	BIT NO.		NO. DC	SIZE	LENG.	BIT NO.		NO. DC	SIZE	LENG.
SERIAL NO.		STANDS			SERIAL NO.		STANDS			SERIAL NO.		STANDS			SERIAL NO.		STANDS		
SIZE		SINGLES			SIZE		SINGLES			SIZE		SINGLES			SIZE		SINGLES		
TYPE		DOWN ON KELLY			TYPE		DOWN ON KELLY			TYPE		DOWN ON KELLY			TYPE		DOWN ON KELLY		
MAKE		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.	Time	Wt.	Vis.	Time	Wt.	Vis.	Time	Wt.	Vis.

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

REMARKS -	REMARKS -	REMARKS -

SIGNED: Toolpusher

Company Supervisor