

#24 PC 30-039-06773
#Kelle 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.

RECEIVED
MAY 14 1990
OIL CON. DIV.
DIST. 3

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>7 1/33</u> #1 <u>225</u>	#8 <u>127</u> #2 <u>219</u>	#9 <u>115</u> #3 <u>213</u>	#4 <u>207</u>	#5 <u>145</u> #6 <u>139</u>
Total Lbs. Coke Used <u>3740</u>	Anode Output (Volts) #1 <u>3.0</u> #2 <u>3.5</u>		#3 <u>3.2</u> #4 <u>2.5</u>	#5 <u>3.8</u>	#6 <u>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>		

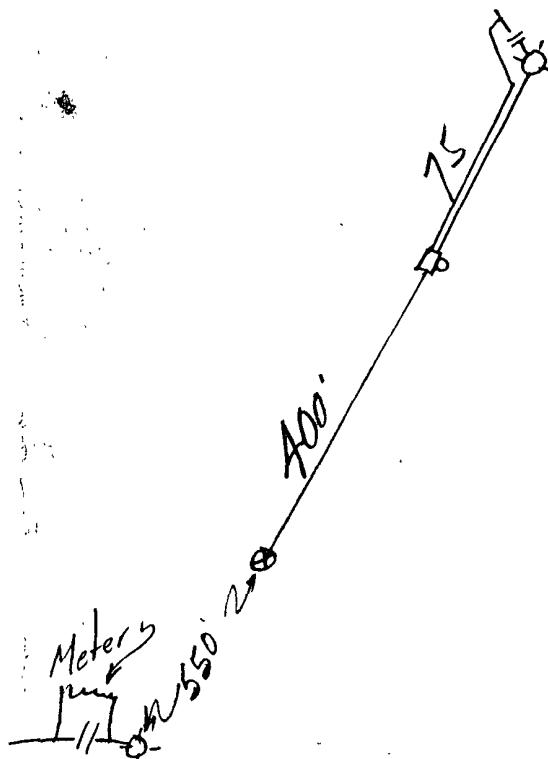
Drilling Log (Attach Hereto). ☐

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'

Construction Completed

Samuel
(Signature)

GROUND BED LAYOUT SKETCH



22 3' #8 wire



DAILY DRILLING REPORT

DATE: 7-1-19

DAYLIGHT

EVENING

NO. <u>92824X</u>	NO. DC _____	SIZE _____	LENG. _____	NO. DC _____	SIZE _____	LENG. _____	NO. DC _____	SIZE _____	LENG. _____
NO. _____	NO. DC _____	SIZE _____	LENG. _____	NO. DC _____	SIZE _____	LENG. _____	NO. DC _____	SIZE _____	LENG. _____
NO. <u>734</u>	STANDS	SERIAL NO. _____	STANDS	STANDS	SERIAL NO. _____	STANDS	STANDS	SERIAL NO. _____	STANDS
NO. _____	SINGLES	SIZE _____	SINGLES	SINGLES	SIZE _____	SINGLES	SINGLES	SIZE _____	SINGLES
NO. <u>1011P</u>	DOWN ON KELLY	TYPE _____	DOWN ON KELLY	DOWN ON KELLY	TYPE _____	DOWN ON KELLY	DOWN ON KELLY	TYPE _____	DOWN ON KELLY
NO. <u>260</u>	TOTAL DEPTH	MAKE _____	TOTAL DEPTH	TOTAL DEPTH	MAKE _____	TOTAL DEPTH	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	MUD RECORD	MUD, ADDITIVES USED AND RECEIVED	MUD RECORD	MUD, ADDITIVES USED AND RECEIVED

[illegible]

REMARKS -

1-4-65	Left yard at 6:00	arriving 7:15	Left 8:00
	Left loc. at 7:45		
		7:20:00	
04.5.			

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.
DST. 3

WELL CASING
CATHODIC PROTECTION CONSTRUCTION REPORT
DAILY LOG

Drilling Log (Attach Hereto). ☐

GADBED, No 2
Contract 84 CPS

Completion Date 7-21-70

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

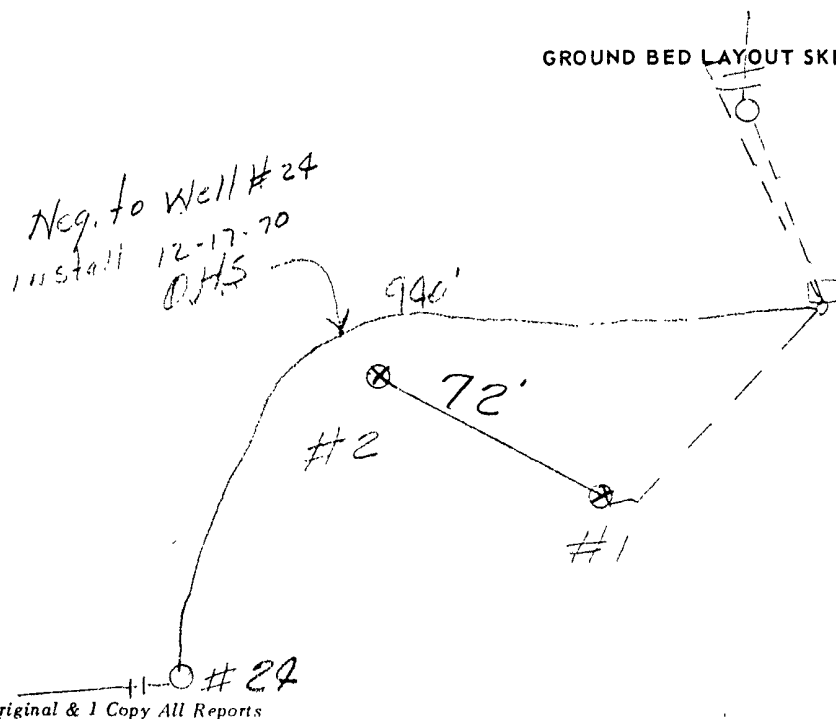
Remarks: Wet at 350 Drill with air to 360'
Anodes 3 & 8 are single - all others Dual -
Hose to No 1 Anode, Perforated 400;
Pump 93 socks of coke 7-21-70 - Put in Dry 15 socks 7-31-70
Lost 400' Filler Hose 1 1/2" in Hole Moved Rig Back on
hole & Drilled out

All Construction Completed

9 Days on hole

Arvels
(Signature)

GROUND BED LAYOUT SKETCH



WELL TYPE GROUNDED DATA

DATA SHEET NO. 1044

COMPANY Phillips JOB NO. 2544 DATE 7-16-70
 WELL 1044 PIPELINE 106-W
 LOCATION: SEC. 37 TWP. 31 RGE. 1 CO. Rockwall STATE N. Mex
 ELEV. 5500 FT: ROTARY C-750 FT: CABLE TOOL ✓ FT: CASING ✓ FT.
 GROUNDED: DEPTH 10 FT. DIA. 0.75 IN. S.A.B. ✓ LES. ANODES 10 CDD-0-51

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 (0-2)							
10	SANDSTONE (25-33)							
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) MICROGROUND _____ OHMS



CATHODIC PROTECTION SERVICES

HOUSTON TEXAS

WELL TYPE GROUNDED DATA

DATA SHEET NO. 7094

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	
0								
10								
20								
30								
40								
50								
60								
70								
80								
90								
100								
110								
120								
130								
140								
150								
160								
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870								
880								
890								
900								
910								
920								
930								
940								
950								
960								
970								
980								
990								
1000								

GROUNDED RESISTANCE: (1) VOLT _____ - AMPS _____ OHMS

(2) VIBROGROUND _____ OHMS



cathodic protection service

HOUSTON TEXAS

WELL TYPE GROUNDED DATA

DATA SHEET NO. 3084

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. CAB _____ LBS. ANODES _____

DEPTH, FT.	DRILLING LOG	DRILL PIPE TO STRUCTURE			EXPLORING ANODE TO STRUCTURE			DEPTH, TOP OF ANODES
		C	I	R	S	I	R	
4.00						6.91		
5.00						7.77		
6.00						8.71		
7.00						9.71		
8.00						1.00		
9.00						1.32		
10.00						1.50		4.65 (10)
11.00						1.83		
12.00						1.20		4.75 (9)
13.00						1.68		
14.00						1.98		
15.00						1.50		4.74 (8)
16.00						1.71		
17.00		12.0	15.5			1.04		
18.00						1.85		
19.00						1.93		
20.00						2.7		
21.00						1.20		4.65 (7)
22.00						1.40		
23.00						1.81		4.75 (6)
24.00						1.45		
25.00						1.05		
26.00						2.3		
27.00						1.07		
28.00						1.94		
29.00						1.12		
30.00						1.15		
31.00						1.12		
32.00						1.12		
33.00						1.12		
34.00						1.12		
35.00						1.12		
36.00						1.12		
37.00						1.12		
38.00						1.12		
39.00						1.12		
40.00						1.12		
41.00						1.12		
42.00						1.12		
43.00						1.12		
44.00						1.12		
45.00						1.12		
46.00						1.12		
47.00						1.12		
48.00						1.12		
49.00						1.12		
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90.00						1.12		
91.00						1.12		
92.00						1.12		
93.00						1.12		
94.00						1.12		
95.00						1.12		
96.00						1.12		
97.00						1.12		
98.00						1.12		
99.00						1.12		
100.00						1.12		

GROUNDING RESISTANCE: (1) VOLTS _____ AMPS _____ OHMS

(2) MEGGROUNDED _____ OHMS



cathodic protection service

2

4054

AINY

JOB No.

DATE:

PIPELINE

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

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

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

11.8 + 10.2

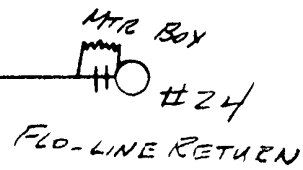
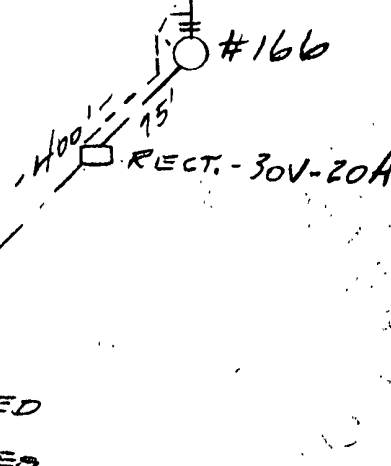
1.15



HOUSTON TEXAS

LOWRY CAMP

N
S



CATHODIC PROTECTION

EL PASO NATURAL GAS COMPANY

RINCON #24 & #166 CPS-706-W

SW 32-27-6

SCALE None	DATE 5-25-65	No. 23
DRAWN BY 844	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

Drilling Log (Attach Hereto). ☐

Completion Date 12/3/71

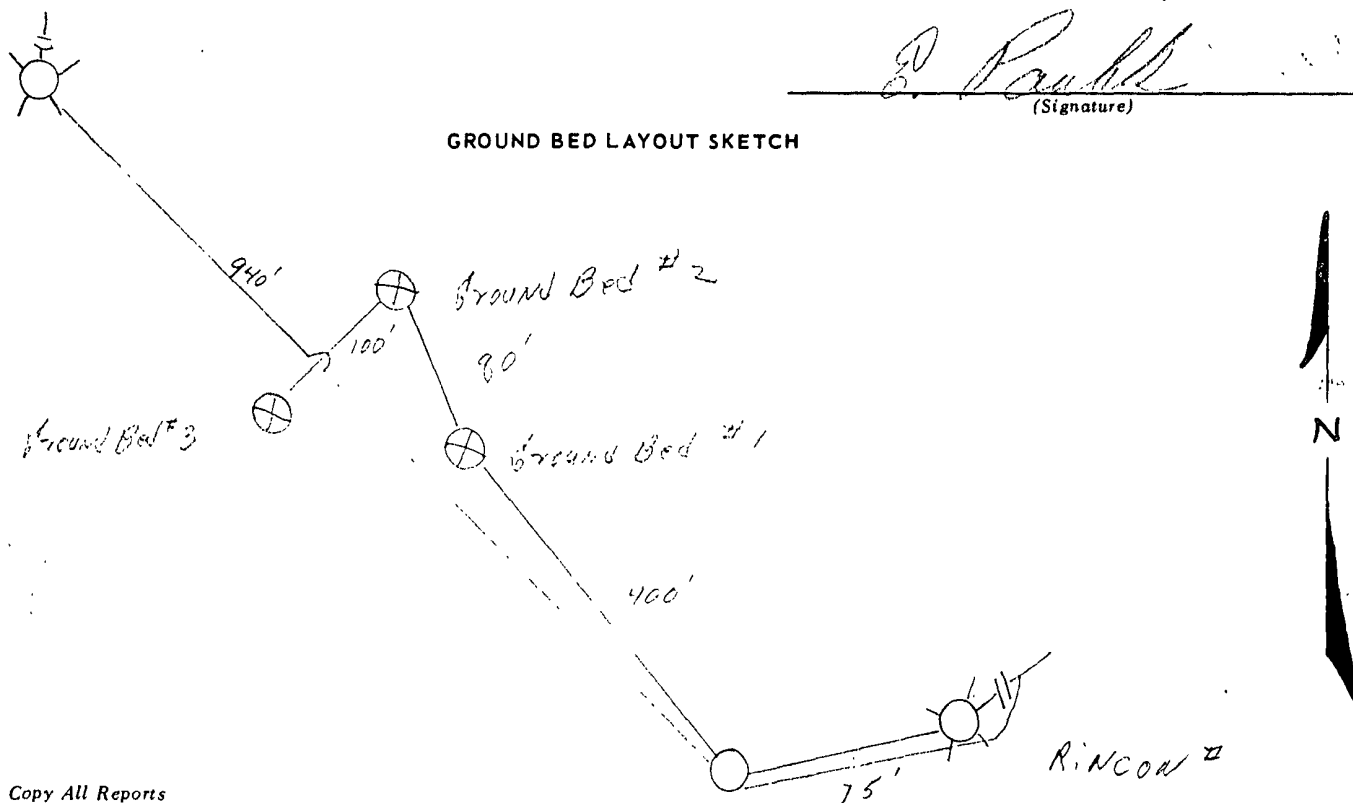
Well Name <u>Rincon 24 of 166</u>		Location <u>SW 2 - 27N - 6W</u>		CPS No. <u>706W</u>	
Type & Size Bit Used <u>6 3/4</u>		Work Order No. <u>184 - 52497 - 50 - 20</u>		<u>184 - 4256 50 - 20</u>	
Anode Hole Depth, <u>720</u>	Total Drilling Rig Time	Total Lbs. Coke Used <u>11.700</u>	Lost Circulation 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>3.5</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: Driller said good water @ 370' Vent Hose Perforated
500' to #1 Anode. CPS. Redrill 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
ONE HILL 501970 COWT230T

MW		gas/mol
16	C ₁	6.4
30	C ₂	9.56
44	C ₃	10.42
58	C ₄	12.36
72	C ₅	11.93
86	C ₆	13.85
100	C ₇	15.80
114	C ₈	15.57
128	C ₉	17.2
142	C ₁₀	19.38
156	C ₁₁	21.44
170	C ₁₂	23.67

MW		gas/mol
44	C ₃	6.38
58	C ₄	9.15
72	C ₅	6.16
86	C ₆	7.38

Driller Soil Water @ 370		
350	20	1.81
60	30	1.20
70	40	.65
80	50	.62
90	60	.57
400	70	.53
10	80	.77
10	90	.98
30	100	2.0
40	110	1.84
50	120	.95
60	130	.76
70	140	.67
80	150	.71
90	160	.66
500	170	1.42
10	180	1.76
10	190	1.40
1.75	680	1.50
Bottom		

DEPTH	Water	COMP
1 620	1.40	2.0
2 612	1.70	3.3
3 604	2.0	4.2
4 596	1.44	3.5
5 588	1.33	2.5
6 570	1.54	3.3
7 512	1.25	3.0
8 504	1.02	2.1
9 473	1.35	2.6
10 455	1.17	2.7
11 437	1.28	2.6
12 445	1.15	2.1

12.3V 10.9 1.13-2

Pumped 68 Bags

DAILY DRILLING REPORT

LEASE Pincen WELL NO. 24 CONTRACTOR Moreau RIG NO. redrill from 1970 REPORT NO. 11-27 DATE 11-27-71 1971

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.
0	3	surface clay			450	480	sandy shale			600	630	sandy shale		
3	350	dry sand stone			480	500	sand			630	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.
SERIAL 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.	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