

3 - 30-045-10147
5E- 30-045-26535

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. 31 Twp 31 Rng 8

Name of Well/Wells or Pipeline Serviced HOWELL D #3, #5E

cps 252w

Elevation 6380' Completion Date 8/31/70 Total Depth 460' 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. N/A

Depths gas encountered: N/A

Type & amount of coke breeze used: 60 SACKS

Depths anodes placed: 405', 395', 360', 350', 320', 310', 300', 290', 210', 200'

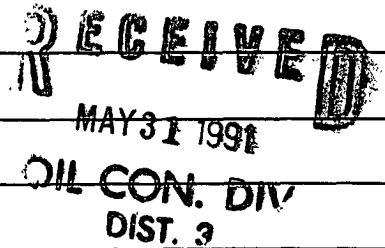
Depths vent pipes placed: N/A

Vent pipe perforations: 405'

Remarks: qb #2 ALL ANODES TANDEM

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). ☐

GROUND BED NO. 2.

Contract By CPS

Completion Date 8-31-70

Well Name Howell # 30		Location NE 31-31-8		CPS No. 252W	
Type & Size Bit Used 6 3/4				Work Order No. 184-5203050-20	
Anode Hole Depth 460	Total Drilling Rig Time	Total Lbs. Coke Used	Lost Circulation Mat'l Used	No. Sacks Mud Used	
Anode Depth					
# 1 405	# 2 395	# 3 360	# 4 350	# 5 320	# 6 310
# 7 300	# 8 290	# 9 210	# 10 200		
Anode Output (Amps)					
# 1 3.4	# 2 3.4	# 3 2.8	# 4 2.8	# 5 3.9	# 6 3.9
# 7 4.2	# 8 4.2	# 9 4.6	# 10 4.6		
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		No. 8 C.P. Cable Used		No. 2 C.P. Cable Used	
Volts 11.8		Amps 13.2		Ohms 0.9	

Remarks: Drill with air to 120. Inject water to 220'

all anodes TANDEN -

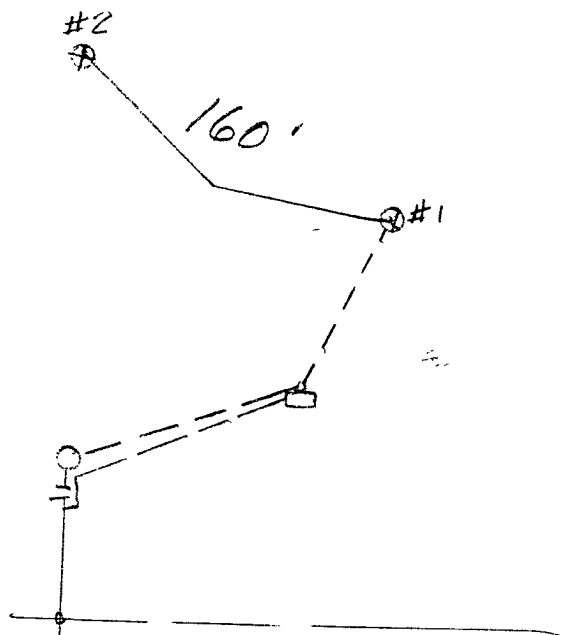
Vent Hose Perforated 405

Pump 60 sacks coke, - Slurry 23

All Construction Completed

Arvels
(Signature)

GROUND BED LAYOUT SKETCH



EL PASO NATURAL GAS COMPANY
ENGINEERING DEPARTMENT

Sheet ____ of ____

Date: _____

By: _____

Wet at 100
252W - air to 120 - Inject to 280

MW	gas/mol
16	C ₂ 6.4
30	C ₃ 9.56
44	C ₄ 10.42
58	C ₅ 12.58
72	C ₆ 11.93
86	C ₇ 13.85
100	C ₈ 13.71
114	C ₉ 15.92
128	C ₁₀ 15.87
142	C ₁₁ 17.46
156	C ₁₂ 19.38
170	C ₁₃ 19.64
184	C ₁₄ 20.67

MW	MISC
44	CO ₂ 6.38
34	H ₂ O 5.17
28	N ₂ 4.16
2	H ₂ 3.58

100	1.8	80	1.7						
	1.4		2.2						
10	2.2	90	2.4					2.9	
	2.2		2.6					13.2	11.8
20	1.5	300	2.5					11.8	
	1.2		2.4	1	405			2.3	3.4
30	1.1	10	2.4	2	395				
	1.0		2.5	3	360			2.0	2.8
40	.9	20	2.2	4	350				
	.9		1.7	5	320			2.9	3.9
50	1.0	30	1.5	6	310				
	1.0		1.4	7	300			3.2	4.2
60	1.0	40	1.4	8	290				
	1.2		1.4	9	210			3.4	4.6
70	1.2	50	2.0	10	200				
	1.1		2.2						
70	1.2	60	2.0						
	1.2		1.5						
90	1.4	70	1.3						
	1.9		1.2						
200	2.6	80	1.2						
	2.3		1.4						
10	2.2	90	1.6						
	2.3		2.0						
20	2.4	400	2.8						
	1.7		2.0						
30	1.3	10	1.4						
	1.4		1.6						
40	1.9	20	1.8						
	2.2		1.8						
50	2.2	30	1.7						
	1.8		1.6						
60	1.3	40	1.6						
	1.2								
70	1.2	50							
	1.2								