

#1 = 30-045-07540
#4 = 30-046-26602

4783

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

Operator MERIDIAN OIL Location: Unit SW Sec. 12 Twp 28 Rng 8

Name of Well/Wells or Pipeline Serviced HARDIE D #1, #4

cps 651w

Elevation 6276' Completion Date 10/18/76 Total Depth 532' 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. 375'

Depths gas encountered: N/A

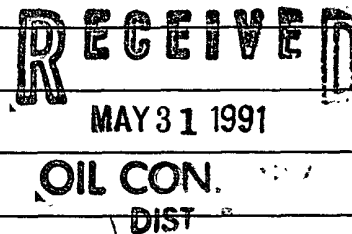
Type & amount of coke breeze used: 70 SACKS

Depths anodes placed: 500', 445', 435', 395', 375'

Depths vent pipes placed: 500'

Vent pipe perforations: 380'

Remarks: gb #2



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

LOG 666

Drilling Log (Attach Hereto) ☐

Completion Date 10/18/76

Well Name HARDIE #1-D		Location SW 12-28-8		CPS No. 651 W	
Type & Size Bit Used 6 3/4"				Work Order No. 52618.19-50-20	
Anode Hole Depth 532'	Total Drilling Rig Time	Total Lbs. Coke Used 70 SACKS	Lost Circulation Mat'l Used	No. Sacks Mud Used	
Anode Depth					
#1 500'	#2 445'	#3 435'	#4 395'	#5 375'	#6
Anode Output (Amps)					
#1 1.5	#2 2.6	#3 2.4	#4 1.5	#5 1.5	#6
Anode Depth					
#11	#12	#13	#14	#15	#16
Anode Output (Amps)					
#11	#12	#13	#14	#15	#16
Total Circuit Resistance	No. 8 C.P. Cable Used		No. 2 C.P. Cable Used		
Volts 11.5	Amps 6.7	Ohms 1.7			

Remarks: Driller said water at 375', drilled with air all the way, hole made lots of water. Veat on #1 Anode Perforated 380'

2,248.50
873.60 x Depth
16.80 Surf. Cable

3,138.90
125.55 TAX

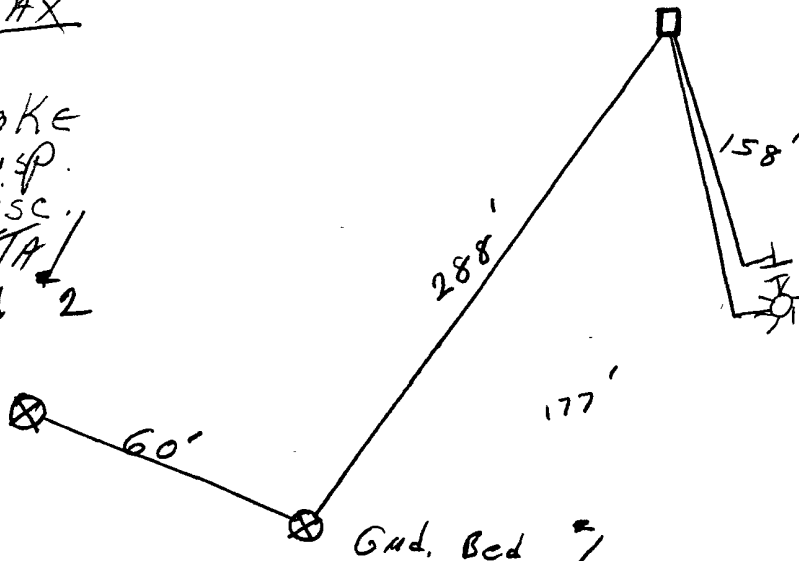
GROUND BED LAYOUT SKETCH

All Construction Completed

JE Stoltz
(Signature)

3,264.45
420.00 COKE
213.40 Insp.
50.00 Misc.

3,947.85 TOTAL
Gnd. Bed #2



651 W

HARDIE

1-D

52618-19-50-20

MW	gas/mol
16	C ₂ 6.4
30	C ₃ 10.1
44	C ₄ 10.4
58	C ₅ 12.3
72	C ₆ 13.9
86	C ₇ 15.5
100	C ₈ 17.2
114	C ₉ 18.9
128	C ₁₀ 20.6
142	C ₁₁ 22.3
156	C ₁₂ 24.0

MW	MISC	gas/mol
44	CO ₂	6.38
34	H ₂ S	5.17
28	N ₂	4.16
2	H ₂	1.38

300'	80	.7	Driller said WATER
		.6	AT 375'
10	90	.6	
		.6	VENT ON 1 ANGLE
20	500	.8	Perforated 380'
		.7	
30	10	.6	
		.7	
40	20	.7	
		.5	
50	30	.7	532 T.D
		.7	
60	40	.6	Drilled To
		.7	
70		.7	
		.9	
80		.7	
		.7	
90		.7	
		.9	
400		.7	
		.7	
10		.7	
		.7	
20		.7	
		.7	
30		.7	
		1.0	
40		1.3	
		1.3	
50		1.1	
		.7	
60		.5	
		.5	
70		.6	
		.7	

* 1 = 500' - .9 - 1.5
 2 = 445' - 1.5 - 2.6
 3 = 435' - 1.2 - 2.4
 4 = 395' - 1.0 - 1.5
 5 = 375' - 1.0 - 1.5

651 W

Tom OBrian

LEASE

WELL NO.

CONTRACTOR

RIG NO.

REPORT NO.

DATE 10-18 1976

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.
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.		Time	Wt.	Vis.			
			0-62 S		98	142	S-S				170-207	S	4				
			62-66 SH		142	150	S & SH				207-250	S	4				
			66-95 S wet		150	158	Sd				250-256	S	Wet				
			95-98 SH		158	170	S & SH				256-290	SH	Wet				
FROM	TO	TIME BREAKDOWN			FROM	TO	TIME BREAKDOWN			FROM	TO	TIME BREAKDOWN					
		290-330 S					330-340 S										
		330-355 SH & S					340-340 S										
		355-445 SS water (2)					340-340 S										
		445-460 S															
		460-470 S															
		470-476 S															

REMARKS -

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77.6' tall 6" (540')
400' long 12" (532')