

1270

1A-30-045-23699

5-30-045-21040

E

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICO

(Submit 3 copies to OCD Aztec Office)

Operator MERIDIAN OIL Location: Unit NW Sec. 21 Twp 28 Rng 8Name of Well/Wells or Pipeline Serviced GRAMBLING A #1A, #5

cps 1558w

Elevation 5753' Completion Date 9/15/81 Total Depth 340' Land Type* N/ACasing, Sizes, Types & Depths 66' OF 8" CASINGIf Casing is cemented, show amounts & types used N/AIf Cement or Bentonite Plugs have been placed, show depths & amounts used
N/ADepths & thickness of water zones with description of water when possible:
Fresh, Clear, Salty, Sulphur, Etc. 20' NO SAMPLEDepths gas encountered: N/AType & amount of coke breeze used: 4080 lbs.Depths anodes placed: 325', 315', 305', 295', 285', 275', 265', 255', 245', 235'Depths vent pipes placed: 340'Vent pipe perforations: 320'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.

CATHODIC PROTECTION CONSTRUCTION REPORT
DAILY LOG

Drilling Log (Attach Hereto) ☐

2 x 60 ANODES

Completion Date 9-15-81

Well Name GRAMBLING A#1A GRAMBLING A#5		Location NW 21-28-8		CPS No. 1558-W	
Type & Size Bit Used 6 3/4		Work Order No. 57659-21 55281-19			
Anode Hole Depth 340' logged 340'	Total Drilling Rig Time	Total Lbs. Coke Used 4080	Lost Circulation Mat'l Used	No. Sacks Mud Used	
Anode Depth					
# 1 325	# 2 315	# 3 305	# 4 295	# 5 285	# 6 275
# 7 265	# 8 255	# 9 245	# 10 235		
Anode Output (Amps)					
# 1 4.6	# 2 5.0	# 3 5.6	# 4 5.9	# 5 4.9	# 6 4.3
# 7 5.2	# 8 5.8	# 9 6.5	# 10 5.6		
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 11.9	Amps 21.8	Ohms .54			

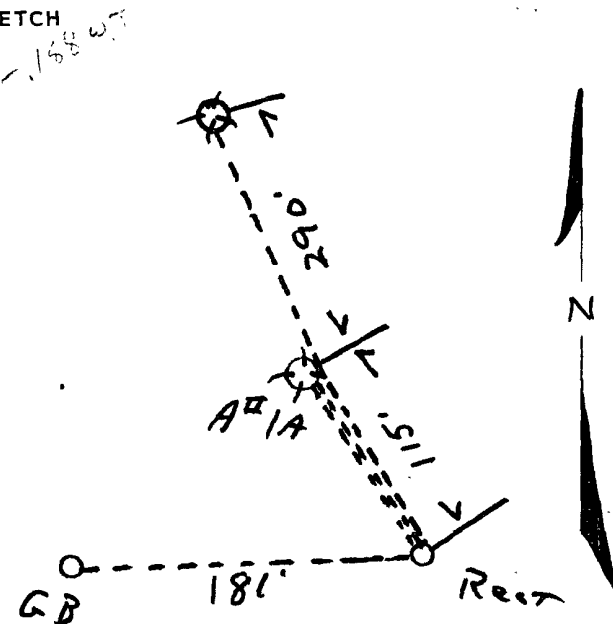
Remarks: STATIC - GRAMBLING A#1A 600' SE .84, GRAMBLING A#5 .84
Set 22' of 8" casing. WATER STANDING AT BOTTOM OF CASING.
INSTALLED 340' of 1" VENT PIPE, PERFORATED 320' of VENT PIPE
SLURRY 4080 lbs. of COKE. DRILLED WITH MUD. CAME OUT OF
WITH PIPE & HOLE CAVED IN. Pulled 22' of casing & RESET 66' of 8" CAS.

1 60V 30A RECT. ✓
1 20' METER POLE ✓
Ditch & 1 cable - 586' ✓
EXTRA cable - 255' ✓
Hole Depth - 160' ✓

All Construction Completed

Willis L. Knight Jr.
(Signature)

GROUND BED LAYOUT SKETCH



Rig Time TO
SET CASING & CLEAN 6 HRS. 9-16-81 ✓
OUT HOLE.
Add 3 HRS. FOR STORY DRILLING
See ATTACHED DRILLING LOG. 8-24-81 ✓

Time	Res	O.T
9-15-81	8	2 ✓
9-16-81	8	4 ✓

DISTRIBUTION:

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

5763

El Paso Natural Gas Company
ENGINEERING CALCULATIONSheet: of
Date: 9-15-8
By: WK
File: _____Grambling A[#]1A
Grambling A[#]5
NW 21-28-8
CPS 1558.WW/D 57659-21
W/D 55281-19Static 600' SE .84
Static .84

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 60V 30A Rect
1 20' meter Pole
Ditch & 1 cable - 586'
EXTRA cable - 255'
Hole Depth - 160'Casing Set at 22' Water Standing
in Btm. No Water Sample Drill
340' Came out of hole, Hole
Set in. Pulled 22' of casing
Reset 66' of 8" casing.Installed 340 of 1" VENT P.P.
Perforated 320 of VENT PIPE
Stuffed 4080 lbs of Coke

80	1.40	05	1.30	30	3.60
85	1.60	10	1.90	35	3.60
90	1.70	15	2.50	40	3.60 TD
95	1.40	20	3.50	45	
100	1.40	25	3.50	50	
05	1.30	30	4.00		
10	1.30	35	3.70 ⑩		
15	1.30	40	4.20		
20	1.40	45	4.40 ⑨		
25	1.50	50	3.90		
30	1.30	55	3.60 ⑧		
35	1.30	60	3.20		
40	1.30	65	3.30 ⑦		
45	1.20	70	2.80		
50	1.20	75	2.70 ⑥		
55	1.40	80	3.00		
60	1.40	85	3.20 ⑤		
65	1.50	90	3.90		
70	1.30	95	3.90 ④		
75	1.20	100	3.90		
80	1.50	05	3.70 ③		
85	1.70	10	3.80		
90	1.70	15	3.00 ②		
95	1.80	20	2.90		
200	1.50	25	3.20 ①		

①	325	3.20	4.60
②	315	3.50	5.00
③	305	3.90	5.60
④	295	4.10	5.90
⑤	285	3.20	4.90
⑥	275	2.80	4.30
⑦	265	3.40	5.20
⑧	255	3.90	5.80
⑨	245	4.60	6.50
⑩	235	4.10	5.60

11.90 V
21.8 A
154 A

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

CP 51558-11 *Brambling A #5 - A-#1A*
 LEASE *CP 51558-11* WELL NO. *5* CONTRACTOR *Brambling A #5 - A-#1A* RIG NO. *1* REPORT NO. *1* DATE *8-24-81* 19

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.
<i>C</i>	<i>45</i>	<i>Blew sand</i>		<i>Could not Drill</i>										
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.		
FROM	TO	TIME BREAKDOWN			FROM	TO	TIME BREAKDOWN			FROM	TO	TIME BREAKDOWN		
REMARKS -					REMARKS -					REMARKS -				
<i>2 hrs Rig time setting</i>					<i>20' 8" casing</i>					<i>3 Hours Rig Time - T.M.F. - Q.H.D.</i>				
<i>A few Rig stand by</i>					<i>1 hr - 8-24-81</i>									
					<i>3 hr - 8-25-81</i>									

SIGNED: Toolpusher

W. Stenif

Company Supervisor

Bill Donohue

S.S. 32-9 #64A

~~005-#1558-W~~

CPS #1558-W

DAILY DRILLING REPORT

LEASE _____ WELL NO. _____ CONTRACTOR C.P.S. RIG NO. _____ REPORT NO. _____ DATE 9-16 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.
S. L 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.			

FROM	TO	TIME BREAKDOWN	FROM	TO	TIME BREAKDOWN	FROM	TO	TIME BREAKDOWN
0	60	SAND (SURFACE)						
60	215	SAND STONE						
215	340	SHALE						

REMARKS -	WATER 20'	REMARKS -	NOTE: 3 HRS RIG TIME	REMARKS -
DRILLED 340'	T.D. 340'	CHARGED TO THIS WELL	BY STORY DRILLING ON	
		8-24-81 FOR SETTING	20' OF SURFACE CASING	
9-16-81	FROM 8:30 TO 2:30 RIG	AND CEMENTING.	(SEE ATTACHED DRILLING LOG)	
	TIME FOR DRILLING OUT			
	20' OF EXISTING CASING			
	AND ADDING 46' OF CASING			
	FOR A TOTAL OF 66' OF			
	CASING SET. - 6 HRS TOTAL RIG TIME			

SIGNED: Toolpusher _____

Company Supervisor _____

Gary E. Miskish