

#29 30-039-07615

#521 30-039-24866

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. 13 Twp 29 Rng 7

Name of Well/Wells or Pipeline Serviced SAN JUAN 219-7 UNIT #29, #521

cps 304w

Elevation 6257' Completion Date 9/24/76 Total Depth 399' 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. 200'

Depths gas encountered: N/A

Type & amount of coke breeze used: 64 SACKS

Depths anodes placed: 365', 357', 349', 341', 333', 325', 315', 305', 210', 200'

Depths vent pipes placed: N/A

Vent pipe perforations: 249'

Remarks: gb #3 ANODES #17 THRU #5 ON 8' CENTERS.

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.

WELL CASING
CATHODIC PROTECTION CONSTRUCTION REPORT
DAILY LOG

Drilling Log (Attach Hereto)

Completion Date 9-24-76

Well Name SW 29-7 #29		Location SW13-29-7				CPS No. 304W				
Type & Size Bit Used 6 3/4						Work Order No. 40051				
Anode Hole Depth Log 399		Total Drilling Rig Time		Total lbs. Coke Used 64		Lost Circulation Mat'l Used		No. Sacks Mud Used		
Anode Depth										
# 1 365	# 2 357	# 3 349	# 4 341	# 5 333	# 6 325	# 7 315	# 8 305	# 9 210	# 10 200	
Anode Output (Amps)										
# 1 4.4	# 2 4.5	# 3 4.5	# 4 3.4	# 5 2.6	# 6 2.5	# 7 2.6	# 8 2.0	# 9 2.0	# 10 2.2	
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 12.2	Amps 10.0	Ohms 1.2								

Remarks: Driller said Damp at 175, wet at 192 start injection, Drilled 400 - Water at 200 - Est. 30M.
Anodes 1 thru 5 on 8' centers
Vent Perforated 249'
Slurry 64 Coke

2248.50
235.20 Depth
15.60 sur. cable
170.00 Anodes
149.05 Leadwire

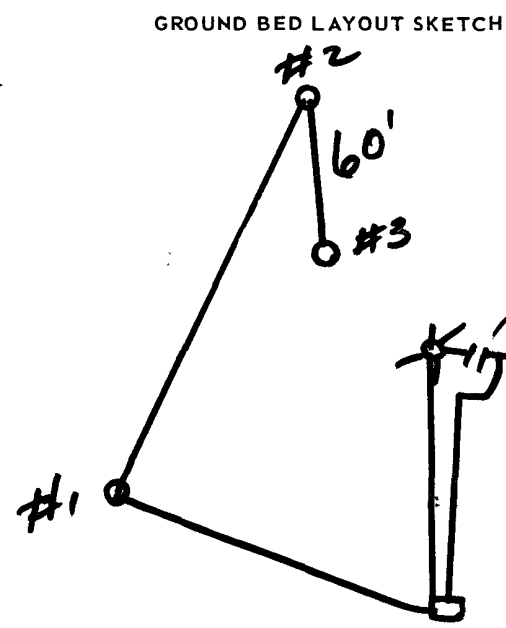
2,818.35
112.73 Tax

2931.08
213.40 Insp
50.00 Misc.

3,194.48

All Construction Completed

Aurels
(Signature)



304

EL PASO NATURAL GAS COMPANY
DRILLING DEPARTMENT

#7

S.S. 29-7 unit 29 Tom O Briant

DAILY DRILLING REPORT

LEASE WELL NO. CONTRACTOR RIG NO. REPORT NO. DATE 8-24 1976

MORNING

DAYLIGHT

EVENING

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.		SERIAL NO.		SIZE		LENG.		STANDS	
6 3/4															
SER. NO.		STANDS		SINGLES		TYPE		TOTAL DEPTH		MAKE					

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.			
0-47			Silt	135-158	S	192-210			Sh	228-232							
47-56			Sh	158-162	Sh	210-218			S	232-235							
56-64			SS D.	162-175	Sh Damp	218-222			Sh	235-237							
64-135			Sh Dry	175-192	S Wet	222-228			S	237-243							

FROM	TO	TIME BREAKDOWN	FROM	TO	TIME BREAKDOWN	FROM	TO	TIME BREAKDOWN
243-259		Sh	283-286		Sh	328-335		SS
259-267		S + Sh	286-290		S	335-342		S
267-280		S	290-300		Sh	342-354		S + Sh
280-283		Sh + SS	300-328		S + Sh	354-360		S + Sh

REMARKS - T.D. 400'
Hole logged 399'

El Paso Natural Gas Company
ENGINEERING CALCULATION

Sheet: _____ of _____
 Date: _____
 By: _____
 File: _____

304

MW		gals/mol
16.04	C ₁	6.4
30.07	C ₂	10.12
44.10	C ₃	10.42
58.12	iC ₄	12.38
58.12	nC ₄	11.93
72.15	iC ₅	13.85
72.15	nC ₅	13.71
86.18	iC ₆	15.50
86.18	C ₆	15.57
100.21	iC ₇	17.2
100.21	C ₇	17.46
114.23	C ₈	19.39
28.05	C ₂ ²	9.64
42.08	C ₃ ²	9.67

MW	MISC.	gals/mol
32.00	O ₂	3.37
28.01	CO	4.19
44.01	CO ₂	6.38
64.06	SO ₂	5.50
34.08	H ₂ S	5.17
28.01	N ₂	4.16
2.02	H ₂	3.38

Depth	1.2	1.2			
200	1.2	1.2			Driller said wet at 200'
	1.2	1.5			
10	5	1.1			
	4	5			
20	16	5			
	5	6			
30	6	5			
	5	6			
40	3	5			
	4	4			
50	4	4			
	4	4			
60	4	4			
	6	5			
70	5	7			
	4	5			
80	4	5			
	5	4			
90	6	5			
	9	6			
300	1.5	9			
	13	1.5			
10	1.8	1.3			
	1.7	1.7			
20	1.7	1.7			
	1.7	1.7			
30	1.5	1.7			
	1.4	1.5			
40	1.5	1.4			
	1.6	1.5			
50	1.8	1.6			
	1.8	1.3			
60	1.5	1.8			
	6	1.4			
70	5	6			
	5	5			
80	4	5			
	3	4			
90	1	3			
		399 TD			
400					

Driller said wet at 200'
 Wtr at 200 when
 gal pipe out of
 Log 12 -

1	3.5	23	4.4
2	3.57	2.0	4.5
3	3.49	2.3	4.5
4	3.41	1.7	3.4
5	3.33	1.6	2.6
6	3.25	1.9	2.5
7	3.15	2.1	2.6
8	3.05	2.7	2.0
9	2.10	1.7	2.0
10	2.00	1.5	2.2

12.2V 10.0 = 1.2V

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. 13 Twp 29 Rng 7

Name of Well/Wells or Pipeline Serviced SAN JUAN 29-7 UNIT #29, #521

cps 304w

Elevation 6257' Completion Date 9/16/69 Total Depth 370' 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. 200'

RECEIVED
MAY 31 1991

Depths gas encountered: N/A

OIL CON. DIV.
DIST. 3

Type & amount of coke breeze used: 5830 lbs.

Depths anodes placed: 350', 344', 338', 332', 326', 320', 314', 308'

Depths vent pipes placed: 344' OF 3/4" HOSE

Vent pipe perforations: 340'

Remarks: gb #2 PLASTIC MOLD USED TO CAP ANODES. EPOXY POURED ABOVE SHRINK SLEEVE.

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

5' 1/2" # 206 = 180
5" # 62500 = 190

No 2 Ground Bed

Date 9-16-69

Well Name SJ. 29-7 # 29			CPS No. 304W			
Location SW 13-29-7			Work Order No. 184-40051-50-20			
Anode Hole Depth 370	Total Drilling Rig Time 30 1/2	Type & Size Bit Used 7 1/8 - 34 x 34 = 370		No. Sacks Mud Used 3		
No. Sacks Lost Circulation Mat'l Used 0	Anode Depth					
	# 1 350	# 2 344	# 3 338	# 4 332	# 5 326	# 6 320
Total Lbs. Coke Used 5830	Anode Output (Volts)					
	# 1 3.5	# 2 3.6	# 3 3.5	# 4 3.5	# 5 3.7	# 6 3.8
Total Circuit Resistance	No. Ft. Surface Cable Conduit					
Volts 12.5	Amps 9.5	Ohms 1.31	2932			

Drilling Log (Attach Hereto)

7 3.4	8 3.08
7 3.8	8 3.4

Remarks:

3/4" Hose to No 2 Anode Perforated 340'
50 lbs Barafos used.

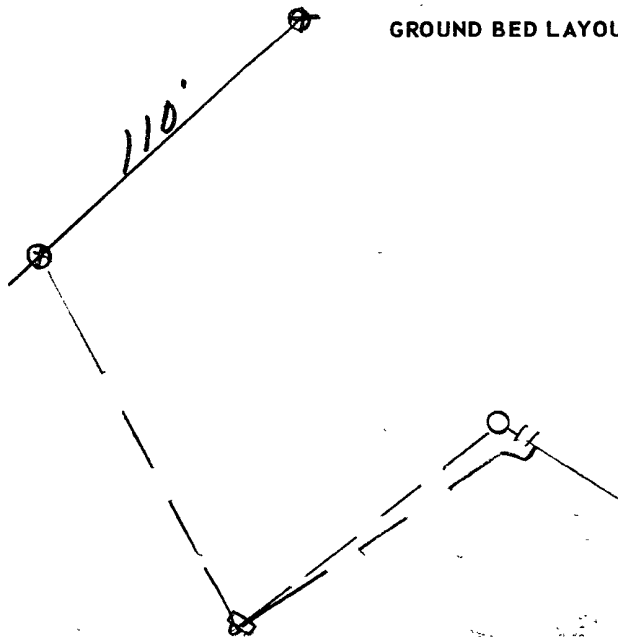
Plastic Mold used to Cap Anodes -
Epoxy Poured above Shrink Sleeve

All Construction Completed

Arrels

(Signature)

GROUND BED LAYOUT SKETCH



206 180'

304

LEASE: WELL NO. **304W** CONTRACTOR **Manned Const** RIG NO. **304** REPORT NO. **19** DATE **19**

MORNING				EVENING			
Driller		Total Men In Crew		Driller		Total Men In Crew	
FROM	TO	WT-BIT	R.P.M.	FROM	TO	WT-BIT	R.P.M.
0	40	Sand.		216	305	SS	
40	55	Shale		305	343	SS	
55	806	SS + shale		343	363	SS	
806	216	Shale		363	370	SS	
BIT NO. 67500		LENG.		BIT NO. 34434		LENG.	
SERIAL NO. 190		LENG.		SERIAL NO. 3701		LENG.	
SIZE 5 1/2		STANDS		SIZE 7 1/2		STANDS	
TYPE		SINGLES		TYPE		SINGLES	
MAKE		DOWN ON KELLY		MAKE		DOWN ON KELLY	
MUD RECORD		MUD, ADDITIVES USED AND RECEIVED		MUD RECORD		MUD, ADDITIVES USED AND RECEIVED	
Time	Wt.	Vis.		Time	Wt.	Vis.	
			Mud 3 sacks				
			Bristles 1 sack				
TIME BREAKDOWN		TIME BREAKDOWN		TIME BREAKDOWN		TIME BREAKDOWN	
FROM	TO			FROM	TO		
		Water at 200'	4 hrs.				
		Water standing 140'	10 hrs.				
			10 hrs.				
			6 1/2 hrs.				
			30 hrs.				
REMARKS		REMARKS		REMARKS		REMARKS	
9-12-69 - 60ft location 1 AM. Moved to 304W set up & drilled 120' 6 eff 5:30 PM		9-12-69 - 60ft location 1 AM. Moved to 304W set up & drilled 120' 6 eff 5:30 PM		9-12-69 - 60ft location 1 AM. Moved to 304W set up & drilled 120' 6 eff 5:30 PM		9-12-69 - 60ft location 1 AM. Moved to 304W set up & drilled 120' 6 eff 5:30 PM	
9-13-69 - 60ft yd. 6 AM. Rm. 119 7:30 Drilled to 200' with 50' - set pit mixed mud & bulbs		9-13-69 - 60ft yd. 6 AM. Rm. 119 7:30 Drilled to 200' with 50' - set pit mixed mud & bulbs		9-13-69 - 60ft yd. 6 AM. Rm. 119 7:30 Drilled to 200' with 50' - set pit mixed mud & bulbs		9-13-69 - 60ft yd. 6 AM. Rm. 119 7:30 Drilled to 200' with 50' - set pit mixed mud & bulbs	
9-15-69 - 60ft yd. 5 PM. Chopped bit at 180' to 50'		9-15-69 - 60ft yd. 5 PM. Chopped bit at 180' to 50'		9-15-69 - 60ft yd. 5 PM. Chopped bit at 180' to 50'		9-15-69 - 60ft yd. 5 PM. Chopped bit at 180' to 50'	
9-16-69 - 60ft yd. 6 AM. Rm. 119 8:00 - 40ft in hole. Rm. 119 8:00 - 40ft in hole.		9-16-69 - 60ft yd. 6 AM. Rm. 119 8:00 - 40ft in hole. Rm. 119 8:00 - 40ft in hole.		9-16-69 - 60ft yd. 6 AM. Rm. 119 8:00 - 40ft in hole. Rm. 119 8:00 - 40ft in hole.		9-16-69 - 60ft yd. 6 AM. Rm. 119 8:00 - 40ft in hole. Rm. 119 8:00 - 40ft in hole.	
9-16-69 - 60ft yd. 6 AM. Rm. 119 8:30 - 40ft in hole. Rm. 119 8:30 - 40ft in hole.		9-16-69 - 60ft yd. 6 AM. Rm. 119 8:30 - 40ft in hole. Rm. 119 8:30 - 40ft in hole.		9-16-69 - 60ft yd. 6 AM. Rm. 119 8:30 - 40ft in hole. Rm. 119 8:30 - 40ft in hole.		9-16-69 - 60ft yd. 6 AM. Rm. 119 8:30 - 40ft in hole. Rm. 119 8:30 - 40ft in hole.	
7:19 AM - 60ft hole stopped back in 7 cage out. Rm. 119 8:00 - 40ft in hole. Rm. 119 8:00 - 40ft in hole.		7:19 AM - 60ft hole stopped back in 7 cage out. Rm. 119 8:00 - 40ft in hole. Rm. 119 8:00 - 40ft in hole.		7:19 AM - 60ft hole stopped back in 7 cage out. Rm. 119 8:00 - 40ft in hole. Rm. 119 8:00 - 40ft in hole.		7:19 AM - 60ft hole stopped back in 7 cage out. Rm. 119 8:00 - 40ft in hole. Rm. 119 8:00 - 40ft in hole.	
From 190' to 370' - Came on 7 bett location at 6:30 PM		From 190' to 370' - Came on 7 bett location at 6:30 PM		From 190' to 370' - Came on 7 bett location at 6:30 PM		From 190' to 370' - Came on 7 bett location at 6:30 PM	

SIGNED: Toolpusher

Company Supervisor

[Signature]

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. 13 Twp 29 Rng 7

Name of Well/Wells or Pipeline Serviced SN JUAN 29-7 UNIT #29, #521

cps 304w

Elevation 6257' Completion Date 3/7/63 Total Depth 120' 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: 850 lbs.

Depths anodes placed: 110', 104', 98', 80', 70'

Depths vent pipes placed: N/A

Vent pipe perforations: N/A

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.

WELL CASING
CATHODIC PROTECTION CONSTRUCTION REPORT
DAILY LOG

DATE 3-7-63

WELL NAME SAN JUAN 29-7 # 29 CPS NO. 304W

LOCATION 13 - 27N - 7W

WORK ORDER NUMBER 184 - 40542 - 50 - 02

ANODE HOLE DEPTH 120

TOTAL DRILLING RIG TIME 6 hrs

DRILLING TIME FOR RECTIFIER POLE HOLE 0

TYPE AND SIZE BIT USED _____

NUMBER SACKS MUD USED 0

NUMBER SACKS LOST CIRCULATION MAT'L USED 0

ANODE DEPTHS #1 110', #2 104', #3 98', #4 80' 5.70

TOTAL LBS. COKE USED 850 lbs

ANODE OUTPUTS 12 VOLTS, #1 3.2, #2 3.5, #3 3.7, #4 3.6 5.3.7

TOTAL CIRCUIT RESISTANCE: VOLTS 12 AMPERES 8.5 OHMS 1.42

NUMBER FEET SURFACE CABLE CONDUIT 422'

DRILLING LOG (ATTACH HERETO).

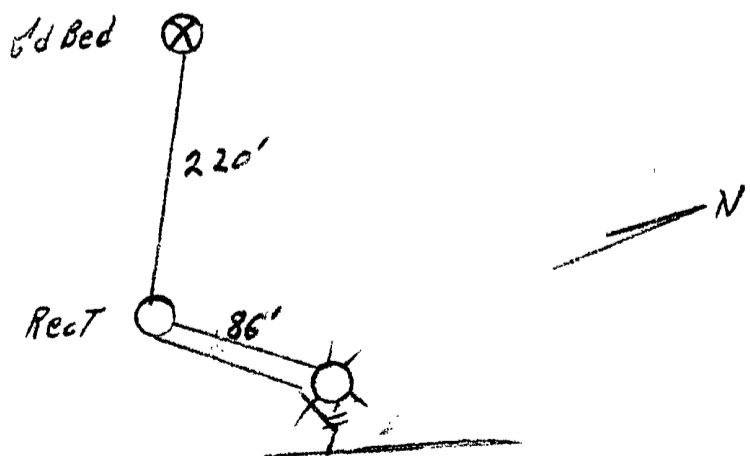
FORMATION LOG (ATTACH HERETO).

REMARKS: Static G/S = 72R 600' W

ALL CONSTRUCTION COMPLETED

P. Paul
SIGNATURE

GROUND BED LAYOUT SKETCH



ORIGINAL & 1 COPY
ALL REPORTS

EL PASO NATURAL GAS COMPANY
DRILLING DEPARTMENT

DAILY DRILLING REPORT

LEASE SAN JUAN 29-7 WELL NO. 57 CONTRACTOR L.E. WILSON RIG NO. D-2 REPORT NO. DATE 3-6 1963

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	65	Sandy Clay	7516											
65	120	SHALE	"											

BIT NO.		NO. DC	SIZE	LENG.	BIT NO.		NO. DC	SIZE	LENG.	BIT NO.		NO. DC	SIZE	LENG.
SERIAL NO. 7516					SERIAL NO.					SERIAL NO.				
SIZE 6 1/4		STANDS			SIZE		STANDS			SIZE		STANDS		
TYPE Rock		SINGLES			TYPE		SINGLES			TYPE		SINGLES		
MAKE W.M.		DOWN ON KELLY			MAKE		DOWN ON KELLY			MAKE		DOWN ON KELLY		
TOTAL DEPTH 120'		TOTAL DEPTH			TOTAL DEPTH		TOTAL DEPTH			TOTAL DEPTH		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
					Rig TIME 6 hrs.			

REMARKS -	REMARKS -	REMARKS -
3-6-63 Drilled To 100' / Lead Water 4 hrs		
3-7-63 " From 120' To 120' 2 hrs		

SIGNED: Toolpusher _____

Company Supervisor _____

[Signature]