

2A - 30-045-23168
5 - 30-045-20353
8 - 30-045-20847

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 SE Sec. 23 Twp 30 Rng 10

Name of Well/Wells or Pipeline Serviced RIDDLE B #5, #8, #2A

cps 1045w

Elevation 6207' Completion Date 9/15/80 Total Depth 400' 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. 110' SAMPLE TAKEN

Depths gas encountered: N/A

Type & amount of coke breeze used: 3600 lbs.

Depths anodes placed: 350', 340', 330', 300', 290', 280', 245', 235', 225', 215'

Depths vent pipes placed: 360'

Vent pipe perforations: 260'

Remarks: Fig #2

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). ☐

2" x 60" DURIUM

Completion Date 9-15-80

Well Name Riddle B [#] 5, 8 & 2A		Location SE 23-30-10		CPS No. 1045W	
Type & Size Bit Used 6 3/4 Rock				Work Order No. 54627-19, 54939-19 & 57474-21	
Anode Hole Depth 400 Log 400	Total Drilling Rig Time	Total Lbs. Coke Used 3600	Lost Circulation Mat'l Used		No. Sacks Mud Used
Anode Depth					
# 1 350	# 2 340	# 3 330	# 4 300	# 5 290	# 6 280
# 7 245	# 8 235	# 9 225	# 10 215		
Anode Output (Amps)					
# 1 4.9	# 2 5.6	# 3 5.0	# 4 3.2	# 5 5.1	# 6 3.4
# 7 3.8	# 8 4.4	# 9 3.9	# 10 3.9		
Anode Depth					
# 11	# 12	# 13	# 14	# 15	# 16
Anode Output (Amps)					
# 11	# 12	# 13	# 14	# 15	# 16
Total Circuit Resistance Volts 11.9		Amps 21.5		Ohms .55	
				No. 8 C.P. Cable Used	
				No. 2 C.P. Cable Used	

Remarks: ST 4/5 B[#] 5 = .80 u = good B[#] 8 = .75 u = good B[#] 2A 600' SE = .72 u = good
Driller SAID WATER AT 110' CAUGHT WATER SAMPLE Drilled 400'
Logged 400' INST 360' OF VENT PIPE WITH 260' OF PERF.
SLURRIED 36 SACKS OF COKE.

Hole depth = -100 ✓

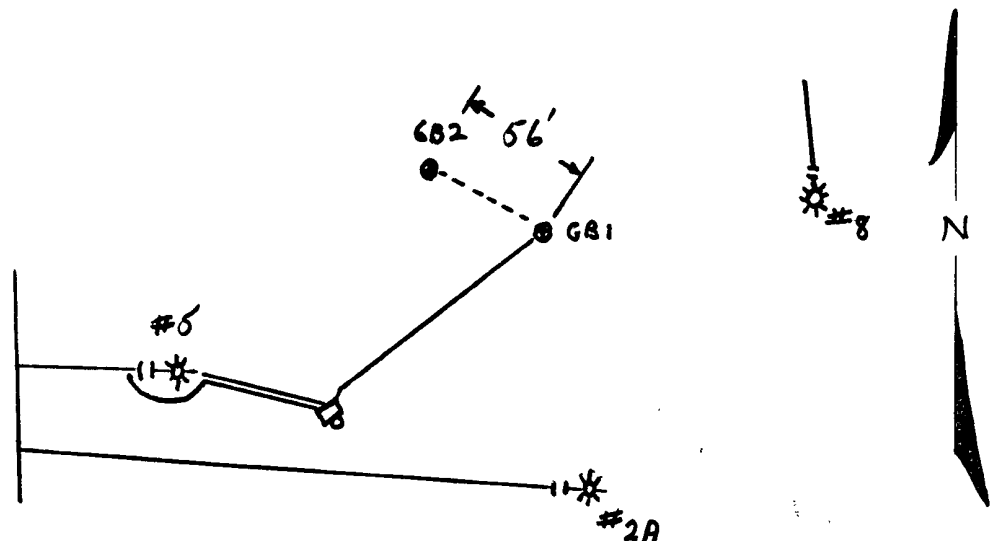
time	Reg	OT
9-15-80	8	3

Ditch + cable = 56' ✓
EXTRA CABLE = 10' ✓

All Construction Completed

Robert J. Balnick
(Signature)

GROUND BED LAYOUT SKETCH



DISTRIBUTION:

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

6207'

Riddle

B

#5
#8
#21

Three C Drilling

2

CPS 1045 W 588

DAILY DRILLING REPORT

LEASE SE 23-30-10

WELL NO.

CONTRACTOR

RIG NO.

REPORT NO. 5427-A
5428-A
5429-A

DATE

Sept 15 1980

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.	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	110	clay sand sandstone watersand																											
110	120	shale																											
120	185	sandstone bentonite																											
185	245	shale																											

BIT NO.		NO. DC	SIZE	LENG.	BIT NO.		NO. DC	SIZE	LENG.	BIT NO.		NO. DC	SIZE	LENG.	BIT NO.		NO. DC	SIZE	LENG.
S		AL NO.		STANDS	S		AL NO.		STANDS	S		AL NO.		STANDS	S		AL NO.		STANDS
SIZE		S		SINGLES	SIZE		S		SINGLES	SIZE		S		SINGLES	SIZE		S		SINGLES
TYPE		TYPE		DOWN ON KELLY	TYPE		TYPE		DOWN ON KELLY	TYPE		TYPE		DOWN ON KELLY	TYPE		TYPE		DOWN ON KELLY
MAKE		MAKE		TOTAL DEPTH	MAKE		MAKE		TOTAL DEPTH	MAKE		MAKE		TOTAL DEPTH	MAKE		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
245	275	sandstone bentonite						
275	305	shale						
305	320	sandstone bentonite						
320	350	shale						
350	400	sandstone						

REMARKS -	REMARKS -	REMARKS -
Water was at 110'. It was making 12 gpm. It logged 400'		

SIGNED: Toolpusher

Kevin Burge

Company Supervisor

El Paso Natural Gas Company
ENGINEERING CALCULATIONSheet 1 of 1
Date: 9-15-80
By: RJB
File: 1045W

9-15-80-11 hrs.

Redrill
ORIGINAL (samples)
1975 56B1045W Riddle B#5 - CPS 1045W - 54627-19
Riddle B#8 - CPS 58B - 54939-19
Riddle B#2A - $\frac{S}{s} = .72$ $u = \text{good}$ 57474-21
SE 23-30-10

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

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

120	2.5	320	1.9
	1.4		2.7
30	1.3	30	3.0-
	1.2		3.0
40	1.3	40	3.0-
	1.3		3.1
50	1.6	50	3.2-
	1.3		1.0
60	1.2	60	.9
	1.3		.8
70	1.3	70	.9
	1.3		.7
80	1.4	80	.8
	1.9		.9
90	2.1	90	.8
	2.1		.7
200	2.2	400	1.0-
	2.3		
10	2.1		
	2.7-		
20	2.6		
	2.5-		
30	2.7		
	2.7-		
40	2.6		
	2.4-		
50	1.9		
	1.2		
60	1.2		
	1.2		
70	1.1		
	1.1		
80	2.3-		
	3.0		
90	2.8-		
	2.8		
300	2.3-		
	1.9		
10	1.5		
	1.3		

DRILLER SAID WATER AT 110 FT
CAUGHT WATER SAMPLE
DRILLED TO 400 FT LOGGED
TO 400 FT INST 360'
VENT PIPE WITH 260'
PERF SLURRIED 36 SACKS
OF COKE.

- ① 350 - 3.3 - 4.9
- ② 340 - 3.1 - 5.6
- ③ 330 - 3.0 - 5.0
- ④ 300 - 2.4 - 3.2
- ⑤ 290 - 3.1 - 5.1
- ⑥ 280 - 2.3 - 3.4
- ⑦ 245 - 2.9 - 3.8
- ⑧ 235 - 3.3 - 4.4
- ⑨ 225 - 2.8 - 3.9
- ⑩ 215 - 2.7 - 3.9

$$11.9 \vee 21.5A = .55 \text{ ohms}$$

EL PASO NATURAL GAS COMPANY
SAN JUAN DIVISION
FARMINGTON, NEW MEXICO
PRODUCTION DEPARTMENT WATER ANALYSIS

CP

Analysis No. 1-10054 Date 12-2-80
Operator El Paso Natural Gas Well Name Riddle B #5
Location SE 23-30-10 County San Juan State New Mexico
Field Kutz Formation _____
Sampled From CPS 1045 W @140'

Date Sampled 9-15-80 By Robert Babnick

Tbg. Press. _____ Csg. _____ Surface Csg. Press. _____			
ppm	epm	ppm	epm
Sodium <u>51</u>	<u>2.2</u>	Chloride <u>26</u>	<u>0.7</u>
Calcium <u>484</u>	<u>24.2</u>	Bicarbonate <u>71</u>	<u>1.2</u>
Magnesium <u>81</u>	<u>6.7</u>	Sulfate <u>1500</u>	<u>31.2</u>
Iron _____	_____	Carbonate <u>0</u>	<u>0</u>
H ₂ S _____	_____	Hydroxide <u>0</u>	<u>0</u>

cc: C.B. O'Nan
R.A. Ullrich
E.R. Paulek
J.W. McCarthy
A.M. Smith
W.B. Shropshire
D.C. Adams
File

Total Solids Dissolved 5160
pH 8.1
Sp. Gr. .9964 At 60°F
Resistivity 333 ohm-cm at 77°F
Herman Bied
Chemist

