

30-045-09276
30-045-20491
30-045-27135

4641

#2

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

Operator MERIDIAN OIL CO. Location: Unit N Sec. 34 Twp 30 Rng 9

Name of Well/Wells or Pipeline Serviced RIDDLE A COM # 260, # 3, # 9

cps 54w

Elevation 5716' Completion Date 8/20/90 Total Depth 65 Land Type N/A

Casing Strings, Sizes, Types & Depths 47ft. 8" PVC Casing

If Casing Strings are 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: Fresh, Clear
Salty, Sulphur, Etc. 30 ft. to 40 ft.

Depths gas encountered: N/A

Ground bed depth with type & amount of coke breeze used:

65 ft. with 500 lbs Ashbury Petroleum Coke

Depths anodes placed: 60ft., 53 ft.

Depths vent pipes placed: 65 ft.

Vent pipe perforations: 20'

Remarks: qb #3 Well #2

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OIL CON. DIV
DIST. 9

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 include

Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee.
If Federal or Indian, add Lease Number.

30-045-09276
30-045-20491
30-045-27135

4642

#3

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

Operator MERIDIAN OIL CO. Location: Unit N Sec. 34 Twp. 30 Rng. 4

Name of Well/Wells or Pipeline Serviced RIDDLE A COM # 260, #3, #9
cps 54w

Elevation 5716' Completion Date 8/20/90 Total Depth 65ft. Land Type N/A

Casing Strings, Sizes, Types & Depths 47 ft. 8" PVC Casing

If Casing Strings are 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: Fresh, Clear,
Salty, Sulphur, Etc. 30 to 40 ft.

Depths gas encountered: N/A

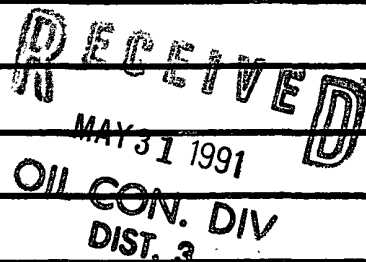
Ground bed depth with type & amount of coke breeze used:
65 ft. with 500 lbs Ashbury Petroleum Coke

Depths anodes placed: 53 ft. 45 ft.

Depths vent pipes placed: 65 ft.

Vent pipe perforations: 20'

Remarks: gh #33 Well #3



If any of the above data is unavailable, please indicate so. Copies of 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.

30-045-09376
30-045-20491
30-045-27135

4643

#4

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

Operator MERIDIAN OIL CO.

Location: Unit N Sec. 34 Twp. 30 Rng. 9

Name of Well/Wells or Pipeline Serviced RIDDLE A COM # 260, #3, #9

CDS 54w

Elevation 5716 Completion Date 8/20/90 Total Depth 65 ft. Land Type N/A

Casing Strings, Sizes, Types & Depths 47 ft. 8" PVC Casing

If Casing Strings are cemented, show amounts & types used N/A

If Cement or Bentonite Plugs have been placed, show depths & amounts use
N/A

Depths & thickness of water zones with description of water: Fresh, Clear
Salty, Sulphur, Etc. 30 to 40 ft.

Depths gas encountered: N/A

Ground bed depth with type & amount of coke breeze used:

65 ft. with 500 lbs Ashbury Petroleum Coke

Depths anodes placed: 58ft, 50 ft.

Depths vent pipes placed: 65 ft.

Vent pipe perforations: 20'

Remarks: gab-#3-Well-#4

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OIL CON. DIV.
DIST. 2

If any of the above data is unavailable, please indicate so. Copies of a 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.

30-045-09276

30-045-20491

30-045-27135

46494

#5

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

Operator MERIDIAN OIL CO. Location: Unit N Sec. 34 Twp. 30 Rng. 9

Name of Well/Wells or Pipeline Serviced RIDDLE A COM # 260, # 3, # 9

cps 54w

Elevation 5716 Completion Date 8/20/90 Total Depth 65 Land Type N/A

Casing Strings, Sizes, Types & Depths 37 ft. 8" PVC Casing

If Casing Strings are 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: Fresh, Clean

Salty, Sulphur, Etc. 30 to 40 ft.

Depths gas encountered: N/A

Ground bed depth with type & amount of coke breeze used:

65 ft. 500 lbs Ashbury Petroleum Coke

Depths anodes placed: 55 ft. & 48 ft.

Depths vent pipes placed: 65 ft.

Vent pipe perforations: 20'

Remarks: Job #3 Well #5 Well #6 CAVED AT 65' LOST 1 ANODE.

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OIL CON. DIV.
DIST. 3

If any of the above data is unavailable, please indicate so. Copies of a 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.

Riddle A #3 30-045-09276

Riddle A #9 30-045-20491

Riddle A COM #260 30-045-27135

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. 24 Twp 30 Rng 9

Name of Well/Wells or Pipeline Serviced RIDDLE A #3, RIDDLE A #9,

RIDDLE A COM #260 cps 54w

Elevation 5716' Completion Date 11/8/61 Total Depth 100' 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 HOLE MAKING WATER AND GAS

Depths gas encountered: N/A HOLE MAKING WATER AND GAS.

Type & amount of coke breeze used: 1020 lbs.

Depths anodes placed: 80', 72', 66', 60', 54'

Depths vent pipes placed: N/A

Vent pipe perforations: N/A

Remarks: qgb #17 THIS HOLE PROBABLY CONTAINED LARGE CAVITY-ALSO WASTED COKE DUE TO

WATER FLOW.

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.

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MAY 31 1991
OIL CON. DIV.
DIST. 3

SAN JUAN DIVISION
WELL CASING CATHODIC PROTECTION
DAILY CONSTRUCTION
PROGRESS REPORT

DATE 11-8-61

WELL NAME - Riddle # 3-A WORK ORDER NO. 184-52155-50-10

NUMBER AND DEPTH OF HOLES: #1 100', #2 , #3 , #4 , #5 .

DEPTH OF EACH ANODE: #1 80', #2 72', #3 66', #4 60', #5 54', #6 , #7
#8 , #9 , #10 .

ANODE RESISTANCES: #1 1.5, #2 1.5, #3 2.0, #4 2.1, #5 1.5, #6 , #7
#8 , #9 , #10 .

TOTAL CIRCUIT RESISTANCE: .78 OHMS.

DRILLING LOG: (ATTACH HERETO)

AMOUNT OF COKE BREEZE PLACED IN EACH HOLE: #1 1020', #2 , #3
#4 , #5 .

ANY DIFFICULTIES ENCOUNTERED IN DRILLING:

ROCKS-

LOST CIRCULATION-

CASING INSTALLED-

DATE ALL CONSTRUCTION COMPLETED .

REMARKS:

Hole making water and gas had to have drill
stay in hole until we could load anodes

TOP OF COKE AT 38' Tried to plug with dirt
unable to drilling dept. to handle plug.

215 lbs / ft - this hole probably contained large
cavity - also wasted coke due to water flow

Edward R. Paulich
SIGNATURE OF INSPECTOR

15
38
47

[illegible]

SIGNED: Toolpusher

____ Company, Supervisor

30-045-09276
30-045-20491
30-045-27135

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. 24 Twp 30 Rng 9

Name of Well/Wells or Pipeline Serviced RIDDLE A #3, RIDDLE A #9,

RIDDLE A COM #260 cps 54w

Elevation 5716' Completion Date 6/17/74 Total Depth 260' 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. 30'

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Depths gas encountered: N/A

OIL CON. DIV
DIST. 3

Type & amount of coke breeze used: 3800 lbs.

Depths anodes placed: 170', 160', 150', 140', 130', 90', 80', 70', 60', 50'

Depths vent pipes placed: N/A

Vent pipe perforations: 150'

Remarks: 2 HOLES DRILLED, FIRST CAVED AT 40', SECOND CAVED AT 160'

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 6/17/74

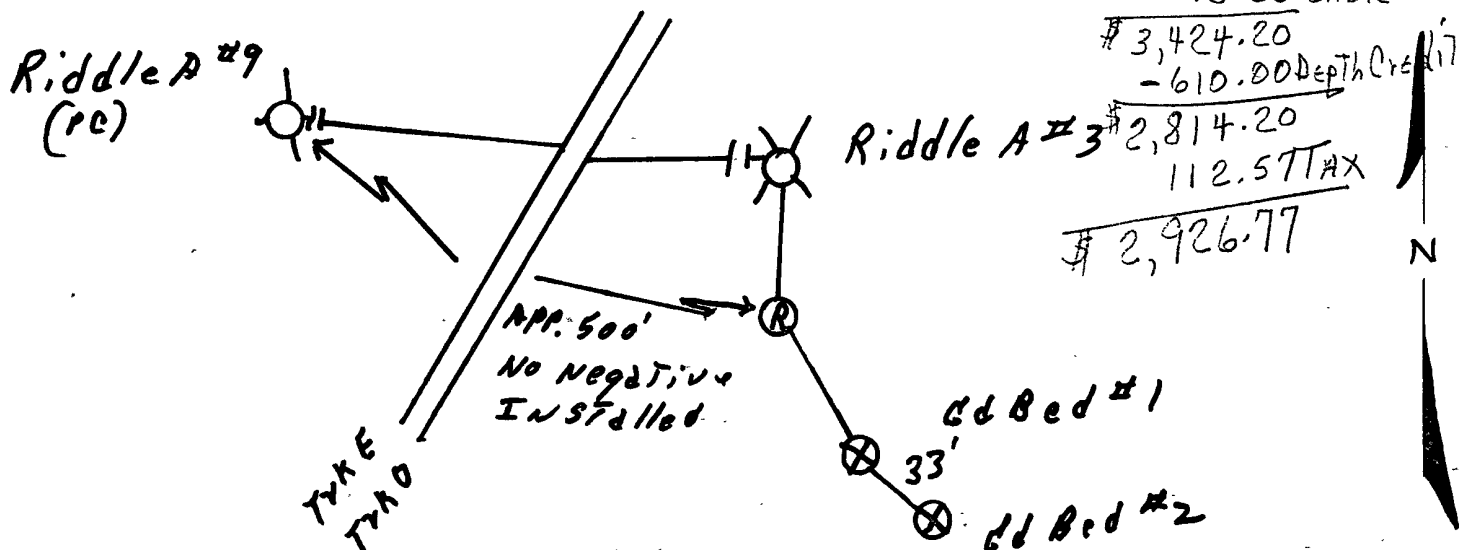
Well Name <u>Riddle A #3</u>		Location <u>SW 24-30N-9W</u>		CPS No. <u>54W</u>	
Type & Size Bit Used <u>6 3/4"</u>				Work Order No. <u>184-52155-19-50</u>	
Anode Hole Depth <u>160'</u>	Total Drilling Rig Time	Total Lbs. Coke Used <u>3800 EST</u>	Lost Circulation Mat'l Used	No. Sacks Mud Used	
Anode Depth					
# 1 <u>170'</u>	# 2 <u>160'</u>	# 3 <u>150'</u>	# 4 <u>140'</u>	# 5 <u>130'</u>	# 6 <u>90'</u>
# 7 <u>80'</u>	# 8 <u>70'</u>	# 9 <u>60'</u>	# 10 <u>50'</u>		
Anode Output (Amps)					
# 1 <u>4.2</u>	# 2 <u>5.5</u>	# 3 <u>5.5</u>	# 4 <u>4.4</u>	# 5 <u>4.3</u>	# 6 <u>3.4</u>
# 7 <u>4.8</u>	# 8 <u>5.5</u>	# 9 <u>4.9</u>	# 10 <u>5.5</u>		
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 <u>11.2</u>	Amps <u>18.0</u>	Ohms <u>0.62</u>		<u>38'</u>	

Remarks: Drilled Hole #1 with Air, cove in.
Drilled Hole #2 with Air, cove in
Drilled Hole #3 with Mud Driller said
water @ 30'. vent hose perforated 150'
pumped coke breeze to 20' complete by
slurry

All Construction Completed

Edward R. Paulk
(Signature)

GROUND BED LAYOUT SKETCH



#3,409.00
 15.20 Cable
 #3,424.20
 -610.00 Depth Credit
 #2,814.20
 112.57 TAX
 \$2,926.77

STORM WATER WELL DRILLING INC.

DIAMOND CORE DRILLING
DIAMOND DRILLING EQUIPMENT
GROUTING
FOUNDATION TESTING
MINING
QUARRIES
SHAFT SINKING
WATER WELL DRILLING

CONTRACTORS
14991 W. 44TH AVENUE
GOLDEN COLORADO 80401
PHONE (303) 278-9305

GENERAL OFFICE
14991 W. 46TH AVENUE
BAILEY OFFICE
CALL 1-833-4821

Drill GD 15 W

Date 6-17-74

Owner CPD 546

Location _____
City _____ State _____ County _____

[illegible]

Total Hours _____

Equipment Down Time _____

Hours Drilling 1 1/2

Driller Art Hadwell

Helper _____

Helper _____

C.P.S. Time _____

S.W.W.D.I. Time

Total Footage _____

Approval of
C.P.S. Engineer _____

40	3.0	40	4.8	20	4.8	40	3.0
50	3.6	30	6.0	20	6.0	30	3.6
60	3.2	40	3.2	40	3.2	60	3.2
70	2.1	50	2.1	70	2.1	70	2.1
80	3.4	60	3.4	80	3.4	80	3.4
90	4.8	70	4.8	90	4.8	90	4.8
100	2.0	80	2.0	100	2.0	100	2.0
110	1.9	90	1.9	110	1.9	110	1.9
120	1.9	100	1.9	120	1.9	120	1.9
130	1.9	110	1.9	130	1.9	130	1.9
140	1.9	120	1.9	140	1.9	140	1.9
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160	1.9	140	1.9	160	1.9	160	1.9
170	1.9	150	1.9	170	1.9	170	1.9
180	1.9	160	1.9	180	1.9	180	1.9
190	1.9	170	1.9	190	1.9	190	1.9
200	1.9	180	1.9	200	1.9	200	1.9
210	1.9	190	1.9	210	1.9	210	1.9
220	1.9	200	1.9	220	1.9	220	1.9
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250	1.9	230	1.9	250	1.9	250	1.9
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270	1.9	250	1.9	270	1.9	270	1.9
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360	1.9	340	1.9	360	1.9	360	1.9
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390	1.9	370	1.9	390	1.9	390	1.9
400	1.9	380	1.9	400	1.9	400	1.9
410	1.9	390	1.9	410	1.9	410	1.9
420	1.9	400	1.9	420	1.9	420	1.9
430	1.9	410	1.9	430	1.9	430	1.9
440	1.9	420	1.9	440	1.9	440	1.9
450	1.9	430	1.9	450	1.9	450	1.9
460	1.9	440	1.9	460	1.9	460	1.9
470	1.9	450	1.9	470	1.9	470	1.9
480	1.9	460	1.9	480	1.9	480	1.9
490	1.9	470	1.9	490	1.9	490	1.9
500	1.9	480	1.9	500	1.9	500	1.9
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670	1.9	650	1.9	670	1.9	670	1.9
680	1.9	660	1.9	680	1.9	680	1.9
690	1.9	670	1.9	690	1.9	690	1.9
700	1.9	680	1.9	700	1.9	700	1.9
710	1.9	690	1.9	710	1.9	710	1.9
720	1.9	700	1.9	720	1.9	720	1.9
730	1.9	710	1.9	730	1.9	730	1.9
740	1.9	720	1.9	740	1.9	740	1.9
750	1.9	730	1.9	750	1.9	750	1.9
760	1.9	740	1.9	760	1.9	760	1.9
770	1.9	750	1.9	770	1.9	770	1.9
780	1.9	760	1.9	780	1.9	780	1.9
790	1.9	770	1.9	790	1.9	790	1.9
800	1.9	780	1.9	800	1.9	800	1.9
810	1.9	790	1.9	810	1.9	810	1.9
820	1.9	800	1.9	820	1.9	820	1.9
830	1.9	810	1.9	830	1.9	830	1.9
840	1.9	820	1.9	840	1.9	840	1.9
850	1.9	830	1.9	850	1.9	850	1.9
860	1.9	840	1.9	860	1.9	860	1.9
870	1.9	850	1.9	870	1.9	870	1.9
880	1.9	860	1.9	880	1.9	880	1.9
890	1.9	870	1.9	890	1.9	890	1.9
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970	1.9	950	1.9	970	1.9	970	1.9
980	1.9	960	1.9	980	1.9	980	1.9
990	1.9	970	1.9	990	1.9	990	1.9
1000	1.9	980	1.9	1000	1.9	1000	1.9

WATER STAND, NG @ 40' 6/12/74 ATTEMPTED TO RELIEVE HOLE, CARRYING @ 40' 10.30 AM WORKED ON HOLE 8 T & LK 12/30P MOVED RIG 02, 11/27/74 HOLE RIG @ 160 @ 2.3 10/d 0.013 dctor we we 10/d 0.013 dctor we we 10/d 0.013 dctor we we

54m HOLE #1 X = 8.4

By: _____ Date: _____ Sheet: _____ of _____

EL PASO NATURAL GAS COMPANY ENGINEERING DEPARTMENT Form 7-1 (Rev. 5-67)

By

Date:

Shoot

10

EA 210H

544

$$H^1(X) = 0$$

6/10/2015 12:18 PM

02/1/20 W:Th,Mu

07:11:20 12/15/2019 10:10 PM PIPS 10/15/2019

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	5
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Water Sample No.	Water	Coke
40	3.0	3.0
50	0.9	3.2
60	3.0	3.8
70	2.7	3.2
80	3.4	3.0
90	3.5	1.9
100	1.7	4.4
110	1.7	3.2
120	3.1	4.2
130	3.2	5.5
140	3.8	5.5
150	3.6	4.8
160	3.5	4.4
170	3.5	4.4
180	3.5	4.4
190	3.5	4.4
200	3.5	4.4
210	3.5	4.4
220	3.5	4.4
230	3.5	4.4
240	3.5	4.4
250	3.5	4.4
260	3.5	4.4
270	3.5	4.4
280	3.5	4.4
290	3.5	4.4
300	3.5	4.4

WELL CASING
CATHODIC PROTECTION CONSTRUCTION REPORT
DAILY LOG

Drilling Log (Attach Hereto) ☐Completion Date 8-20-90

CPS #		Well Name, Line or Plant:		Work Order #		Static:		Ins. Union Check	
54-w		Riddle A com #260						☒ Good ☐ Bad	
		Riddle A com #3							
		Riddle A com #9							
Location:		Anode Size:		Anode Type:		Size Bit:			
N34-30-9		2" x 60"		ANOTEC		6 3/4"			
Depth Drilled		Depth Logged		Drilling Rig Time		Total Lbs. Coke Used		Lost Circulation Mat'l Used	
#1		#2				#3		#4	
Anode Depth									
#1 60		#2 53		#3 60		#4 53		#5 58	
Anode Output (Amps)									
#1 5.9		#2 7.0		#3 6.8		#4 6.8		#5 5.2	
Anode Depth									
#11		#12		#13		#14		#15	
Anode Output (Amps)									
#11		#12		#13		#14		#15	
Total Circuit Resistance						No. 8 C.P. Cable Used		No. 2 C.P. Cable Used	
Volts		Amps		Ohms					

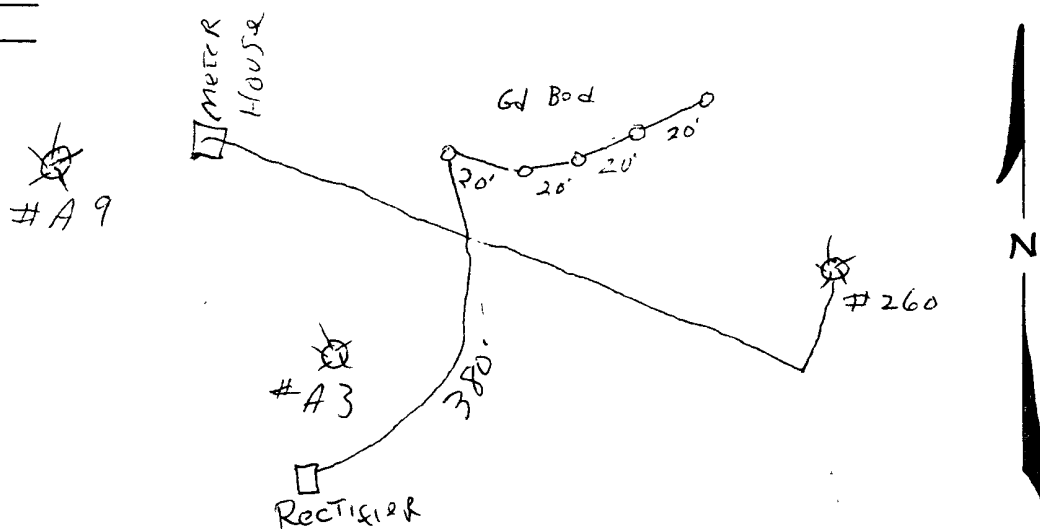
Remarks: DRILLED 5 holes and loaded 2 ANODE PER hole. INSTALLED 1" PVC VENT PIPE IN each hole. AVERAGE hole depth APPROXIMATELY 65'. APPROXIMATE 500 lbs. COKE PER hole. WATER STANDING AT APPROXIMATELY 40" IN hole. PERFORATED 20' ON each VENT PIPE.

Rectifier Size: _____ V _____ A
 Addn'l Depth: _____
 Depth Credit: _____
 Extra Cable: 20'
 Ditch & 1 Cable: 460'
 25' Meter Pole: _____
 20' Meter Pole: _____
 10' Stub Pole: _____
 Junction Box: 1

All Construction Completed

Willis Knight, Jr.
(Signature)

GROUND BED LAYOUT SKETCH



BURGE CORROSION SYSTEMS, INC.

P.O. BOX 1359 - PHONE 334-6141
AZTEC, NEW MEXICO 87410

COMPANY MERIDIAN OIL DAILY DRILLING REPORT 8-20 1990

WELL NAME: <u>Riddle A-Com</u>	WELL NUMBER: <u>260</u>	SECTION: <u>N 24</u>	TOWNSHIP: <u>30</u>	RANGE: <u>9</u>
WATER AT:		FEET:	HOLE MADE:	

DESCRIPTION OF FORMATION			
FROM	TO	FORMATION IS	COLOR
Well #1			
0	50'	8" PVC CASING (SAND-GRAVEL)	
50'	70'	shale	
70'	100'	SAND-GAS-ATTEMPTED TO CEMENT	
HAD TO DRILL CEMENT BACK TO 80' - B.J. HUGHES BACK TO SURFACE			
Well #2			
0	47'	8" PVC CASING (SAND-GRAVEL)	
47'	70'	shale	
Well #3			
0	47'	8" PVC CASING (SAND-GRAVEL)	
47'	65'	shale	
Well #4			
0	47'	8" PVC CASING (SAND-GRAVEL)	
47'	65'	shale	
Well #5			
0	47'	8" PVC CASING (SAND-GRAVEL)	
47'	65'	shale	
Well #6	- LOST DUE TO CASING SPLIT DUE TO GRAVEL		
(Well #7)	0	45'	8" PVC CASING (SAND-GRAVEL)
	45'	65'	shale

REMARKS: Well #1 (ABANDONED - CEMENTED / REDRILLED / CEMENTED) DRILLED WITH MUD

Well #5 (LOST - DRILLED UP 1 ANODE & WIRE DUE TO GRAVEL & SAND RUNNING)

REPLACED / RECOMPLETED Well #6 (LOST DUE TO GRAVEL)

Driller Brian E. Burge Tool Dresser

SET TWO ANODES IN 5 HOLES

TOTAL DAYS TO COMPLETE 7 DAYS

**P.O. BOX 1359 - PHONE 334-6141
AZTEC, NEW MEXICO 87410**

WATER AT:

FEET:

HOLE MADE:

35'

102' #1

DESCRIPTION OF FORMATION[illegible]

REMARKS:

REMARKS: Tried to drill with air, lost returns altogether
Set 50' 8" plastic casing in 12 1/4" Bore hole. Drilled with
mud with 6 3/4 Drill Bit until water and gas were encountered

Driller Grian E. Burge

Tool Dresser

CONSTRUCTION LOGGING READINGS

Meriden Oil

CPS #: 54W WELL NAME: Riddle A com² 260 LOCATION: N24-30-9 DATE: 8-20-90

TOTAL VOLTS: 12.5 TOTAL AMPS: 7.0 OHMS RESISTANCE: 1.8

Hole # 5 at 5

												ANODE READINGS			
DEEP	LOG ANODE	ANODE NO.	DEEP	LOG ANODE	ANODE NO.	DEEP	LOG ANODE	ANODE NO.	DEEP	LOG ANODE	ANODE NO.	NO.	DEPTH	NO COKE	WITH COKE
5			185			365			545			1	55	3.5	5.3
10			190			370			550			2	48	4.5	6.4
15			195			375			555						
20			200			380			560						
25			205			385			565						
30			210			390			570						
35			215			395			575						
40			220			400			580						
45	1.2		225			405			585						
50	3.2		230			410			590						
55	2.6		235			415			595						
60	2.5		240			420			600						
65	62'	TD	245			425			605						
70			250			430			610						
75			255			435			615						
80			260			440			620						
85			265			445			625						
90			270			450			630						
95			275			455			635						
100			280			460			640						
105			285			465			645						
110			290			470			650						
115			295			475			655						
120			300			480			660						
125			305			485			665						
130			310			490			670						
135			315			495			675						
140			320			500			680						
145			325			505			685						
150			330			510			690						
155			335			515			695						
160			340			520			700						
165			345			525			705						
170			350			530			710						
175			355			535			715						
180			360			540			720						

REMARKS: Set 45' of 8" PVC casing

CONSTRUCTION LOGGING READINGS

CPS #: 54-W WELL NAME: Riddle A cam 260 LOCATION: N24-30-9 DATE: 8-17-90

TOTAL VOLTS: 12.46 TOTAL AMPS: 8.3 OHMS RESISTANCE: 1.5

Note #4 of 5

												ANODE READINGS			
DEEP	LOG ANODE	ANODE NO.	DEEP	LOG ANODE	ANODE NO.	DEEP	LOG ANODE	ANODE NO.	DEEP	LOG ANODE	ANODE NO.	NO.	DEPTH	NO COKE	WITH COKE
5			185			365			545			1	58	2.8	5.2
10			190			370			550			2	50	3.8	6.8
15			195			375			555						
20			200			380			560						
25			205			385			565						
30			210			390			570						
35			215			395			575						
40			220			400			580						
45	1.6		225			405			585						
50	2.9	2	230			410			590						
55	2.5		235			415			595						
60	2.0	1	240			420			600						
65	2.0		245			425			605						
70	6.6	TD	250			430			610						
75			255			435			615						
80			260			440			620						
85			265			445			625						
90			270			450			630						
95			275			455			635						
100			280			460			640						
105			285			465			645						
110			290			470			650						
115			295			475			655						
120			300			480			660						
125			305			485			665						
130			310			490			670						
135			315			495			675						
140			320			500			680						
145			325			505			685						
150			330			510			690						
155			335			515			695						
160			340			520			700						
165			345			525			705						
170			350			530			710						
175			355			535			715						
180			360			540			720						

REMARKS: Set 45' of 8" PVC casing

CONSTRUCTION LOGGING READINGS

Meriden 011

CPS #: 54-W WELL NAME: Riddle A Com #260 LOCATION: N 24309 DATE: 8-17-90

TOTAL VOLTS: 12.4 TOTAL AMPS: 10.2 OHMS RESISTANCE: -1.2

Note # 3 of 5

												ANODE READINGS			
DEEP	LOG ANODE	ANODE NO.	DEEP	LOG ANODE	ANODE NO.	DEEP	LOG ANODE	ANODE NO.	DEEP	LOG ANODE	ANODE NO.	NO.	DEPTH	NO COKE	WITH COKE
5			185			365			545			1	53	3.7	6.0
10			190			370			550			2	45	5.4	8.2
15			195			375			555						
20			200			380			560						
25			205			385			565						
30			210			390			570						
35			215			395			575						
40	3.5		220			400			580						
45	3.9	2	225			405			585						
50	3.1		230			410			590						
55	2.9	1	235			415			595						
60	2.6		240			420			600						
65	62' TD		245			425			605						
70			250			430			610						
75			255			435			615						
80			260			440			620						
85			265			445			625						
90			270			450			630						
95			275			455			635						
100			280			460			640						
105			285			465			645						
110			290			470			650						
115			295			475			655						
120			300			480			660						
125			305			485			665						
130			310			490			670						
135			315			495			675						
140			320			500			680						
145			325			505			685						
150			330			510			690						
155			335			515			695						
160			340			520			700						
165			345			525			705						
170			350			530			710						
175			355			535			715						
180			360			540			720						

REMARKS: Set 40' of 8" PVC casing

CONSTRUCTION LOGGING READINGS

Meridan Oil

CPS #: 54-W WELL NAME: Riddle Acom² 260 LOCATION: N24-30-9 DATE: 8-16-90

TOTAL VOLTS: 2.9 TOTAL AMPS: 8.6 OHMS RESISTANCE: 1.6

Hole #1 of 5

												ANODE READINGS			
DEEP	LOG ANODE	ANODE NO.	DEEP	LOG ANODE	ANODE NO.	DEEP	LOG ANODE	ANODE NO.	DEEP	LOG ANODE	ANODE NO.	NO.	DEPTH	NO COKE	WITH COKE
5			185			365			545			1	60	3.5	3.9
10			190			370			550			2	53	3.8	7.0
15			195			375			555						
20			200			380			560						
25			205			385			565						
30			210			390			570						
35			215			395			575						
40			220			400			580						
45			225			405			585						
50	23		230			410			590						
55	3.0	2	235			415			595						
60	2.9	1	240			420			600						
65	2.2	TD	245			425			605						
70			250			430			610						
75			255			435			615						
80			260			440			620						
85			265			445			625						
90			270			450			630						
95			275			455			635						
100			280			460			640						
105			285			465			645						
110			290			470			650						
115			295			475			655						
120			300			480			660						
125			305			485			665						
130			310			490			670						
135			315			495			675						
140			320			500			680						
145			325			505			685						
150			330			510			690						
155			335			515			695						
160			340			520			700						
165			345			525			705						
170			350			530			710						
175			355			535			715						
180			360			540			720						

REMARKS: Set 4 8' of 8" PVC casing

CONSTRUCTION LOGGING READINGS

Meriden 011

CPS #: 54-W WELL NAME: Riddle A Can 260 LOCATION:

DATE: 8-16-90

TOTAL VOLTS: 12.5 TOTAL AMPS: 7.7 OIMS RESISTANCE: - 1.62

Hole #2 of 5

Hole #2 of 5

											ANODE READINGS				
DEEP	LOG ANODE	ANODE NO.	DEEP	LOG ANODE	ANODE NO.	DEEP	LOG ANODE	ANODE NO.	DEEP	LOG ANODE	ANODE NO.	NO.	DEPTH	NO COKE	WITH COKE
5			185			365			545			1	60	3.4	6.1
10			190			370			550			2	53	3.7	6.8
15			195			375			555						
20			200			380			560						
25			205			385			565						
30			210			390			570						
35			215			395			575						
40			220			400			580						
45			225			405			585						
50	3.1	2	230			410			590						
55	2.9		235			415			595						
60	2.7	1	240			420			600						
65	2.0		245			425			605						
70	2.0	TD	250			430			610						
75			255			435			615						
80			260			440			620						
85			265			445			625						
90			270			450			630						
95			275			455			635						
100			280			460			640						
105			285			465			645						
110			290			470			650						
115			295			475			655						
120			300			480			660						
125			305			485			665						
130			310			490			670						
135			315			495			675						
140			320			500			680						
145			325			505			685						
150			330			510			690						
155			335			515			695						
160			340			520			700						
165			345			525			705						
170			350			530			710						
175			355			535			715						
180			360			540			720						

REMARKS: Set 47" of 8" PVC casing