

#1 30-045-09709
#210 30-045-27082

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

Operator MERIDIAN OIL INC. Location: Unit SW Sec. 7 Twp 30 Rng 10

Name of Well/Wells or Pipeline Serviced SUNRAY J #1, #210

cps 2065w

Elevation 6137' Completion Date 5/20/63 Total Depth 200' 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: 1445 lbs.

Depths anodes placed: 175', 135', 129', 120', 114'

Depths vent pipes placed: N/A

Vent pipe perforations: N/A

Remarks: gb #1, gb #2, gb #3

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 May 20, 1963

WELL NAME SUNRAY #1-J #1, #20 CPS NO. 361-K/206

LOCATION 5 1/4 Sec 7 T 30 N R 10 W

WORK ORDER NUMBER 189-40542-50-02

ANODE HOLE DEPTH 200

TOTAL DRILLING RIG TIME 6 1/2 Hrs.

DRILLING TIME FOR RECTIFIER POLE HOLE 0

TYPE AND SIZE BIT USED 6 1/4 Rock -WM 3500X

NUMBER SACKS MUD USED 1

NUMBER SACKS LOST CIRCULATION MAT'L USED 0

ANODE DEPTHS #1 175, #2 135, #3 129, #4 120 5 114

TOTAL LBS. COKE USED 1445 17 Sacks

ANODE OUTPUTS 12.0 VOLTS, #1 4.3, #2 4.6, #3 4.4, #4 4.6 #5 4.0

TOTAL CIRCUIT RESISTANCE: VOLTS 11.4 AMPERES 10.5 OHMS 1.08-2

NUMBER FEET SURFACE CABLE ~~CONDUCT~~ 520'

DRILLING LOG (ATTACH HERETO).

FORMATION LOG (ATTACH HERETO).

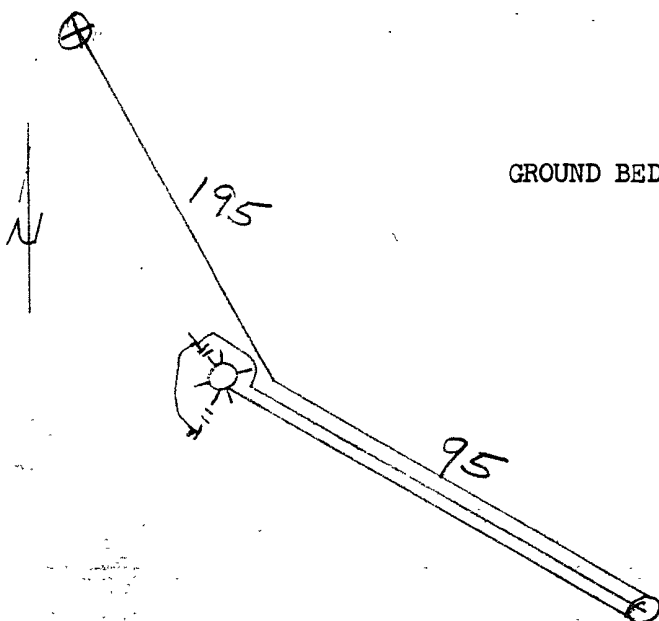
REMARKS: Static G = .90 R 600' SE

Good All Rectifier 28V 12A Ser. # 62C6144

ALL CONSTRUCTION COMPLETED

Sorrels
SIGNATURE

GROUND BED LAYOUT SKETCH



ORIGINAL & 1 COPY
ALL REPORTS

637

1288

SUNRISE No 1-J

LEASE SET 7000 RWB WELL NO. CONTRACTOR J.E. Wilson RIG NO. D-6 REPORT NO. DATE MAY 20 1963

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.
0	20	SAND	3500		103	160	SHALE	3500						
20	75	Shale & Sand	1		160	170	Shale	1						
75	85	Shale	1		170	180	Shale	1						
85	103	Shale & Sand	1		180	200	Shale & Sand	1						
NO. DC SIZE LENG.				NO. DC SIZE LENG.				NO. DC SIZE LENG.						
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 200'				MAKE TOTAL DEPTH				MAKE TOTAL DEPTH						
MUD RECORD				MUD RECORD				MUD RECORD						
MUD, ADDITIVES USED AND RECEIVED				MUD, ADDITIVES USED AND RECEIVED				MUD, ADDITIVES USED AND RECEIVED						
Time		WT. VLS.		Time		WT. VLS.		Time		WT. VLS.				
FROM		TO		FROM		TO		FROM		TO				
TIME BREAKDOWN				TIME BREAKDOWN				TIME BREAKDOWN						
1 1/2 water				6 2 1/2 hrs										
1 mud														

REMARKS -

MAY 19 - OFF
MAY 20 - LEFT Bloomfield 6:00

REMARKS -

ARRIVED AT RIG 6:50 DRILLED 200' FINISHED 1:30

REMARKS -

SIGNED: Toolpusher

Company Supervisor

J. E. Wilson

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NORTHWESTERN NEW MEXICO
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Operator MERIDIAN OIL INC. Location: Unit M Sec. 7 Twp 30 Rng 10

Name of Well/Wells or Pipeline Serviced SUNRAY J #1, #210

cps 2065w

Elevation 6137' Completion Date 1/5/89 Total Depth 300' 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. . 90' NO SAMPLE

Depths gas encountered: N/A

Type & amount of coke breeze used: N/A

Depths anodes placed: 275', 265', 255', 245', 235', 225', 215', 205', 195', 185'

Depths vent pipes placed: 305'

Vent pipe perforations: 220'

Remarks: (gb #3)

RECEIVED

MAY 31 1991

OIL CON. D^{IV}
DIST. 2

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If Federal or Indian, add Lease Number.

WELL CASING
CATHODIC PROTECTION CONSTRUCTION REPORT
DAILY LOG

Comp 1-11-89

Drilling Log (Attach Hereto) ☒

Completion Date 1-5-89

CPS #	Well Name, Line or Plant	Work Order #	Static	Ins Union Check
2065-W	SUNRAY J #210	3344A	600' E = 1.01	☒ Good ☐ Bad
Location	Anode Size	Anode Type	Size Bit	
M 7-30-10	2" x 60"	Duriron	6 3/4"	
Depth Drilled	Depth Logged	Drilling Rig Time	Total Lbs. Coke Used	Lost Circulation Mat'l Used
300'	300'			
Anode Depth				
# 1 275'	# 2 265'	# 3 255'	# 4 245'	# 5 235'
# 6 225'	# 7 215'	# 8 205'	# 9 195'	# 10 185'
Anode Output (Amps)				
# 1 5.8	# 2 6.0	# 3 5.5	# 4 5.3	# 5 5.0
# 6 6.2	# 7 6.8	# 8 7.2	# 9 6.1	# 10 6.0
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 262	Ohms .466		

Remarks: DRILLED 300'; LOGGED 300'. DRILLER SAID WATER AT 90' NO SAMPLE. INSTALLED 305' OF 1" PVC VENT PIPE, PERFORMA: BOTTOM 220'.

* CAN TIE IN TO EXISTING RECTIFIER 361-W. WILL NEED BREAKER BOX FOR 361-W

Rectifier Size: 40V 16A
Addn'l Depth _____
Depth Credit: 200' 3.50
Extra Cable: 670' .24
Ditch & 1 Cable: 740' .70
25' Meter Pole: _____
20' Meter Pole: _____
10' Stub Pole: 1

4074.00
- 700.00 CREDIT ✓
669.00 RECT. ✓
160.80 EX. CABLE ✓
518.00 DITCH + 1 ✓
158.50 STUB POLE ✓
225.00 J. BOX ✓

5105.30
255.27 TAX

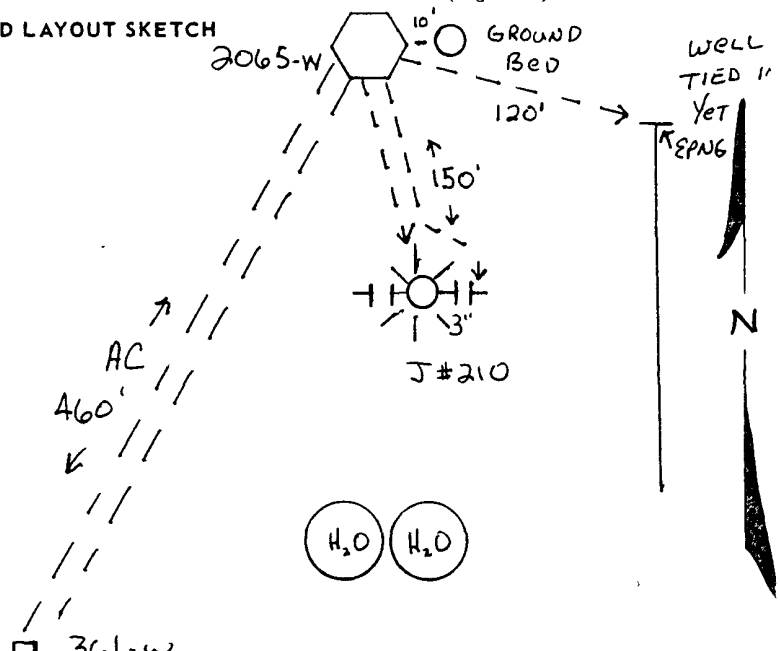
5360.57 OK 92

6637

All Construction Completed

[Signature]
(Signature)

GROUND BED LAYOUT SKETCH



DANIEL CRASS DRILLING CO.

Drill No. 3

DRILLER'S WELL LOG

S. P. No. SUNRAY J[#] 210 Date 1-5-89
 Client Meridian Oil Co. Prospect _____
 County SAN JUAN State New Mex.

If hole is a redrill or if moved from original staked position show distance
 and direction moved: _____

FROM	TO	FORMATION — COLOR — HARDNESS
<u>0</u>	<u>60</u>	<u>SANDstone</u>
<u>60</u>	<u>75</u>	<u>Shale</u>
<u>75</u>	<u>120</u>	<u>SAND -</u>
<u>120</u>	<u>140</u>	<u>SANDstone</u>
<u>140</u>	<u>160</u>	<u>Shale</u>
<u>160</u>	<u>170</u>	<u>SANDstone</u>
<u>170</u>	<u>230</u>	<u>Shale</u>
<u>230</u>	<u>260</u>	<u>SANDy shale</u>
<u>260</u>	<u>300</u>	<u>Shale</u>

Mud _____ Bran _____ Lime _____

Rock Bit Number _____ Make _____

Remarks: Water @ 90'

Driller RONNIE BROWN

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NORTHWESTERN NEW MEXICO
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Operator MERIDIAN OIL INC. Location: Unit SW Sec. 7 Twp 30 Rng 10

Name of Well/Wells or Pipeline Serviced SUNRAY J #1, #210

cps 2065w

Elevation 6137' Completion Date 8/12/74 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. 160'

Depths gas encountered: N/A

Type & amount of coke breeze used: N/A

Depths anodes placed: 335', 325', 315', 300', 290', 280', 250', 240', 230', 220'

Depths vent pipes placed: N/A

Vent pipe perforations: 245'

Remarks: gb #2

RECEIVED
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WELL CASING
CATHODIC PROTECTION CONSTRUCTION REPORT
DAILY LOG

LOGGED

Drilling Log (Attach Hereto) ☐

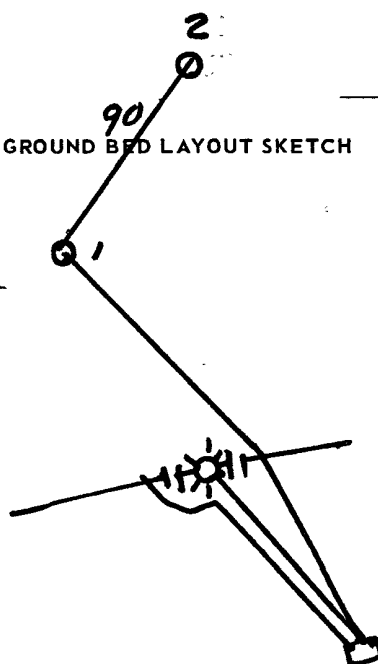
Completion Date **8-12-74**

Well Name SUNRAY #1-J #1		Location SW 7-30-10		CPS No. 36TW 2065	
Type & Size Bit Used 6 3/4				Work Order No. 53435	
Anode Hole Depth 400'	Total Drilling Rig Time	Total Lbs. Coke Used	Lost Circulation Mat'l Used	No. Sacks Mud Used	
Anode Depth					
# 1 335	# 2 325	# 3 315	# 4 300	# 5 290	# 6 280
# 7 250	# 8 240	# 9 230	# 10 220		
Anode Output (Amps)					
# 1 3.0	# 2 3.6	# 3 3.7	# 4 3.3	# 5 3.5	# 6 3.4
# 7 3.8	# 8 4.1	# 9 4.7	# 10 4.6		
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 11.4	Amps 13.0	Ohms .87	95'		

Remarks: **Driller Said Water at 160-
Fill With Water & Log 200' to 380
Vent Perforated 245'
Pump Coke to Surface**

\$ 2,409.00
38.50 Cable
\$ 2,447.00
-280.00 Depth Credit
\$ 2,167.00
126.68 TAX
\$ 3,293.68

GROUND BED LAYOUT SKETCH



All Construction Completed

Arnel
(Signature)

6137

ENGINEERING DEPARTMENT

Date: _____

By: _____

3614) X=6.1

Driller Said w/ra

300-

Drillers Log Shows

150-160

Vent Perf. 245

Log w/ra

1	325	1.8	2.0	3.0
2	325	1.9	2.4	3.6
3	315	1.8	2.2	3.7
4	300	1.5	1.9	3.3
5	290	1.6	2.0	3.5
6	280	1.5	2.0	3.4
7	250	1.6	2.2	3.8
8	240	1.6	2.1	4.1
9	230	1.7	2.0	4.7
10	220	1.5	1.7	4.6

87

11.4/130A = 0.87

MW	gas/mol
16	C ₂ 6.4
30	C ₃ 9.56
44	C ₄ 10.42
58	C ₅ 12.38
72	C ₆ 11.93
86	C ₇ 13.85
100	C ₈ 13.71
114	C ₉ 15.59
128	C ₁₀ 15.57
142	C ₁₁ 17.2
156	C ₁₂ 17.46
170	C ₁₃ 19.38
184	C ₁₄ 19.64
198	C ₁₅ 21.57

MW	MISC	gas/mol
44	CO ₂	6.16
34	H ₂ S	5.17
28	N ₂	4.16
2	H ₂	3.38

STORM WATER WELL DRILLING INC.

CONTRACTORS
14991 W. 44TH AVENUE
GOLDEN, COLORADO 80401
PHONE (303) 278-9505

GENERAL OFFICE
14991 W. 44TH AVENUE
BAILEY OFFICE
CALL 1-838-4821

Date: 8-12-74

Owner C.P.S. 3613

Location 2 Admission Tow State un

[illegible]

Total Hours _____

Equipment Down Time _____

Hours Drilled _____

Driller Art Mackwell

Helper

Helper

C.P.S. Time

S.W.W.D.I.: Time

Total Footage

Approval of
C.P.S. Engineer