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30-045-2245

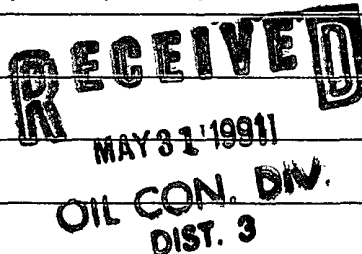
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DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION -WELLS
NORTHWESTERN NEW MEXICO

(Submit 3 copies to OCD Aztec Office)

Operator MERIDIAN OIL Location: Unit NW Sec. 6 Twp 30 Rng 9Name of Well/Wells or Pipeline Serviced QUIGLEY #1A

cps 1275w

Elevation 6527' Completion Date 6/20/78 Total Depth 550' Land Type* N/ACasing, Sizes, Types & Depths N/AIf 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. 130' - 150' SAMPLE TAKENDepths gas encountered: 525' - 540' SMALL AMOUNTType & amount of coke breeze used: N/ADepths anodes placed: 525', 515', 485', 475', 465', 440', 430', 420', 410', 400'Depths vent pipes placed: 550'Vent pipe perforations: 390'Remarks: gb #1

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 6-20-78

Well Name QUIGLEY 1A		Location NW 6-30-9		CPS No. 1275W	
Type & Size Bit Used 6 3/4"				Work Order No. 57171-21	
Anode Hole Depth 550'		Total Drilling Rig Time		Total Lbs. Coke Used	
Anode Depth		Lost Circulation Mat'l Used		No. Sacks Mud Used	
# 1	525	# 2	515	# 3	485
# 4	475	# 5	465	# 6	440
# 7	430	# 8	420	# 9	410
# 10	400				
Anode Output (Amps)					
# 1	1.4	# 2	1.5	# 3	2.3
# 4	3.0	# 5	2.6	# 6	2.2
# 7	3.7	# 8	3.4	# 9	2.5
# 10	2.4				
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 9.2		Amps 9.2		Ohms 1.0	

Remarks: STATIC = .87 Drilled to 440' Laged to 425'
Not enough shale. Water standing at 300' Filled
w/ Water to 155' Drilled to 560' Laged to 550'
More water + small amount gas at 525' to 540'
390' perforated + 160' 1" plain vent pipes.

DITCH + 1 WIRE = 330'

EXTRA WIRE = 238'

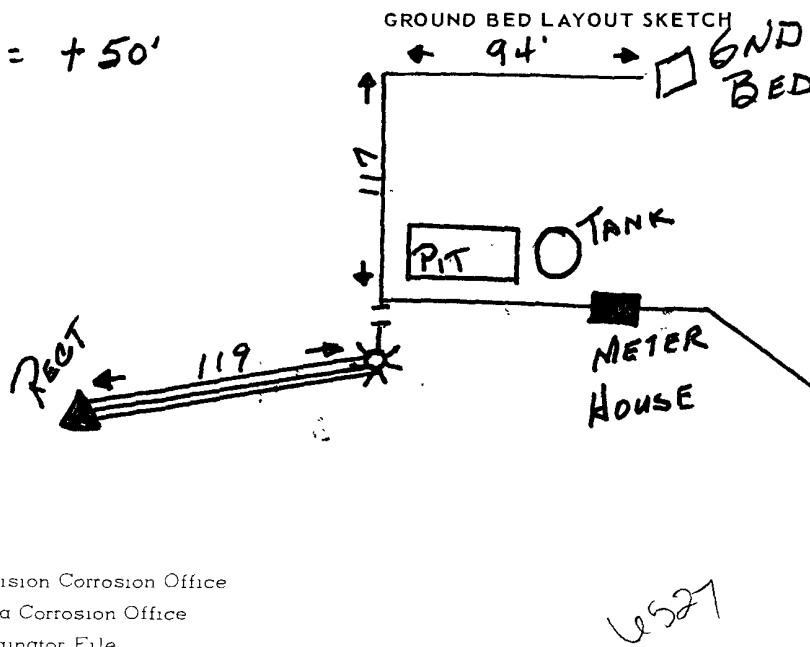
40/16 + 20' POLE

HOLE = +50'

All Construction Completed

BT

(Signature)



DISTRIBUTION:

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

LEASE

WELL NO.

CONTRACTOR

RIG NO.

REPORT NO.

DATE 6-20

1978

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.

Drilled 560
Lugged 550

Driller		NO. DC	SIZE	LENG.	Driller		NO. DC	SIZE	LENG.	Driller		NO. DC	SIZE	LENG.
BIT		NO. DC	SIZE	LENG.	BIT		NO. DC	SIZE	LENG.	BIT		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.	Time	WT.	Vis.	Time	WT.	Vis.	Time	WT.	Vis.

FROM	TO	TIME BREAKDOWN	FROM	TO	TIME BREAKDOWN	FROM	TO	TIME BREAKDOWN
0	5	Surface	90	105	Sand	190	240	Sandy Shale
5	15	Clay	105	130	Shale	240	260	Shale
15	25	Sand Stone	130	150	Sand w/ Making Water	260	340	Sandy Shale
	40	Clay	150	170	Shale	340	420	Shale
40	80	Sand Stone	170	175	Sand	420	440	Sandy Shale
80	90	Shale	175	190	Shale	440	490	Sandy Shale

REMARKS -

REMARKS -

REMARKS -

490-520 Shale
520-530 Sand Water app. 10 gal/min
530-560 Sandy Shale

Making Water 130-150

App - 2 - 3 gal/min.

Log at 280.

SIGNED: Toolpusher

Company Supervisor

El Paso Natural Gas Company
ENGINEERING CALCULATION

Sheet: 6-20-1
Date: 6-20-1
By: BT
File:

1275 W

STATIC = .87

QUIGLEY #1A

NW-6-30-9

DRILLED TO 440' LOGGED TO 425' NOT ENOUGH SHAL
WATER STANDING AT 300' FILLED W/ WATER TO 155'
DRILLED TO 560' LOGGED TO 550'
MORE WATER SAND 525 TO 540.
390' 1" PERFORATED VENT PIPE. 160' 1" PLAIN VENT PIPE.

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 9.64
42.08	C ₃ 9.67

WATER
SAND
3 GAL. PER
MIN. ESTIMATE

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

100	60	20-1.1	⑧	80
10	70	30-1.1	⑦	90
20	80	40-.9	⑥	600
30	90	50-.4		10
40	*300-	60-.6		20
50	10-.4	70-1.2	⑤	30
60	.6	80-1.1	④	40
70	20-.6	90-.9	③	50
80	.4	500-.8		60
90	40-.2	10-.8		
200	.2	20-.9	②	
10	50-.2	30-.9	①	
20	.7	40-.3		
30	60-.4	50-.5		
40	.4	60-		
50	70-.2	70		
	.4			
	80-.3			
	.1			
	90-.1			
	.4			
	400-.9			
	1.0			
	10-1.1			

9.2V 9.2A = 1.0

1 = 525' - .9 - 1.4
2 = 515' - .9 - 1.5
3 = 485' - 1.4 - 2.3
4 = 475' - 1.6 - 3.0
5 = 465' - 1.3 - 2.6
6 = 440' - 1.3 - 2.2
7 = 430' - 2.0 - 3.7
8 = 420' - 1.8 - 3.4
9 = 410' - 1.6 - 2.5
10 = 400' - 1.5 - 2.4

SAN JUAN DIVISION LABORATORY

ANALYSIS NO. 1-9230

DATE COMPLETED 7-6-78

WELL NAME	LOCATION S T R	DATE SECURED	GAL./ DAY	PPM T.D.S.	pH	PPM CHLORIDES	PPM SULFATE
Jones A #1A MV	10-28-8	6-20	24	7452	7.0	4320	7840
Jones A #1A PC	10-28-8	6-20	1	39	6.8	13	1000
Lughes #4A	20-29-8	6-20	54	6858	7.2	4830	1280
May A #5A	18-29-8	6-20	38	7632	7.1	6320	2500
May #1A	17-29-8	6-20	80	6670	7.4	6390	500
May A #1A	17-29-8	6-20	106	7527	7.4	7170	1000
May #3A	18-29-8	6-20	42	6913	6.7	7170	1000
May A #2A	7-29-8	6-20	96	5887	7.6	6320	64
1 Paso #1A	20-29-9	6-17	8	9493	6.8	6745	7080
Mansfield #2A 1241W	19-30-9	6-19		1019	7.3	24	1520
Wigley #1A 1275W	6-30-9	6-19		430	7.1	20	600
Lorance #2A 1220W	21-30-9	6-19		1373	7.3	16	2520
San Juan #11A 1252W	11-30-10	6-19		636	6.4	24	800
San Ray A #1A 1263W	15-30-10	6-19		210	6.2	8	600
Atlantic D Com #5A 1209W	12-30-10	6-19		1493	6.6	16	3000
Bernaghan #4A 1237W	30-31-8	6-19		432	7.3	12	600
Bernaghan #2A 1235W	28-31-8	6-19		190	7.2	16	680
Bernaghan #1A 1234W	33-31-8	6-19		571	6.9	32	800
Walker 1A 1271W	31-31-9	6-19		1664	7.0	32	3520
Atlantic A #8A 1199W	29-31-10	6-19		2637	7.1	152	5560
Atlantic "C" 4A 1200W	31-31-10	6-19		6720	7.7	504	9800
Cott #4A 1258W	17-31-10	6-19		4506	7.0	186	7760
Brookhaven Com A-1 1212W	16-31-10	6-19		3979	6.7	270	6920