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ET ☐ OE ☐ PR ☐ ES ☐APPROVED
Complete the
Attachment Checklist

1a. TYPE OF WORK

☒ Drill, ☐ Deepen, ☐ Re-enter, ☐ Rec

1 b. TYPE OF WELL

OI ☒ GAS ☒ COAL BED ☐ OTHER: _____SINGLE ZONE ☒ MULTIPLE ZONE ☐ COMMINGLE ZONES ☐Refilling ☐
Side Track ☐

2. OGCC Operator Number: 81425

3. Name of Operator: Sovereign Energy LLC

4. Address: 621 17th Street Suite 1520

City: Denver State: CO Zip: 80293

5. Contact Name & Phone

Thomas S. Metzger

Ph: 303-297-0347

Fax: 303-294-0240

6. Well Name: Rosenbrock

Well Number: 2

7. Unit Name (if Appl.): N/A

Unit No: N/A

8. Objective Formation(s): J Sandstone

Formation Code: JSND

9. Proposed Total Depth: 8250'

WELL LOCATION INFORMATION

10. Qtr/Sec: SE/4 Sec: 30 Twp: 1S Rng: 65W Meridian: 6th

11. Footage From Exterior Section Lines (if directional, submit drilling plan):

At Surface: 660' ESL and 1784' FFI

If directional, at Top Proposed Prod. Zone: _____

If directional, at Bottom Hole: _____

12. Ground Elevation: 5217'

13. County: Adams

14. Field Name: Wattenberg

Field Number: 90750

LEASE, SPACING, AND POOLING INFORMATION

15. Spacing Order #(s): 232

16. # Acres in Unit: 320

17. Unit Description: E/2

18. Mineral Ownership: ☒ Fee ☐ State ☐ Federal ☐ Indian

Lease #: _____

19. Surface Ownership: ☒ Fee ☐ State ☐ Federal ☐ IndianIs the Surface Owner also the Mineral Owner ☒ Yes ☐ NoIf No: ☐ Surface Owners Agreement Attached or☐ \$25,000 Blanket Surface Bond☐ \$2,000 Surface Bond☐ \$5,000 Surface Bond

20. Total Acres in Lease: 320

21. Describe Entire Lease by Qtr/Sec, Twp, Rng (attach separate sheet/map if required):

E/2, Section 30, Twp 1 South, Range 65 West

22. Is location in a high density area (Rule 603b)? ☒ No ☐ Yes

23. Distance to nearest Lease Line: 660'

24. Distance to nearest Property Line: 660'

25. Distance to nearest well completed in the same Formation: 2500'

26. Distance to nearest building, public road, major above ground utility or railroad: 660'

** The use of an earthen pit for recompletion fluids requires a pit permit (Rule 905b).

DRILLING PLANS AND PROCEDURES

27. Approx. Spud Date: 3/31/2000

* IF Air/Gas Drilling, Notify Local Fire Officials

28. Drilling Contractor Number: 04550

Name: Ashby Drilling

Phone #: 720-359-0718

29. Is H₂S Anticipated: ☒ No ☐ Yes If yes, attach contingency plan.30. Will salt (>15,000 ppm TDS Cl) or oil based muds be used during drilling? ☒ No ☐ Yes31. Will salt sections be encountered during drilling? ☒ No ☐ Yes32. If questions 30 or 31 are yes, is this location in a sensitive area (Rule 903)? ☐ No ☐ Yes33. Mud disposal: ☐ Offsite ☒ OnsiteMethod: ☐ Land Farming ☒ Land Spreading ☐ Disposal Facility ☐ Other: _____

34. CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Sks Cement	Cement Bottom	Cement Top
12 1/4"	8 5/8"	24	1570'	700	1570'	Surface
7 7/8"	4 1/2"	11.6	8250'	200	8250'	7250'

35. BOP Equipment: ☒ Annular Preventor ☐ Double Ram ☐ Rotating Head ☐ None

36. Comments, if any: _____

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Print Name: Thomas S. Metzger

Signed: T. Metzger Title: Manager

Date: 03/24/00

OGCC Approved: [Signature]

Director of COGCC

Date: APR 11 2000

API NUMBER

05-001 09408 00

Permit Number: 000336

Expiration Date: APR 10 2007

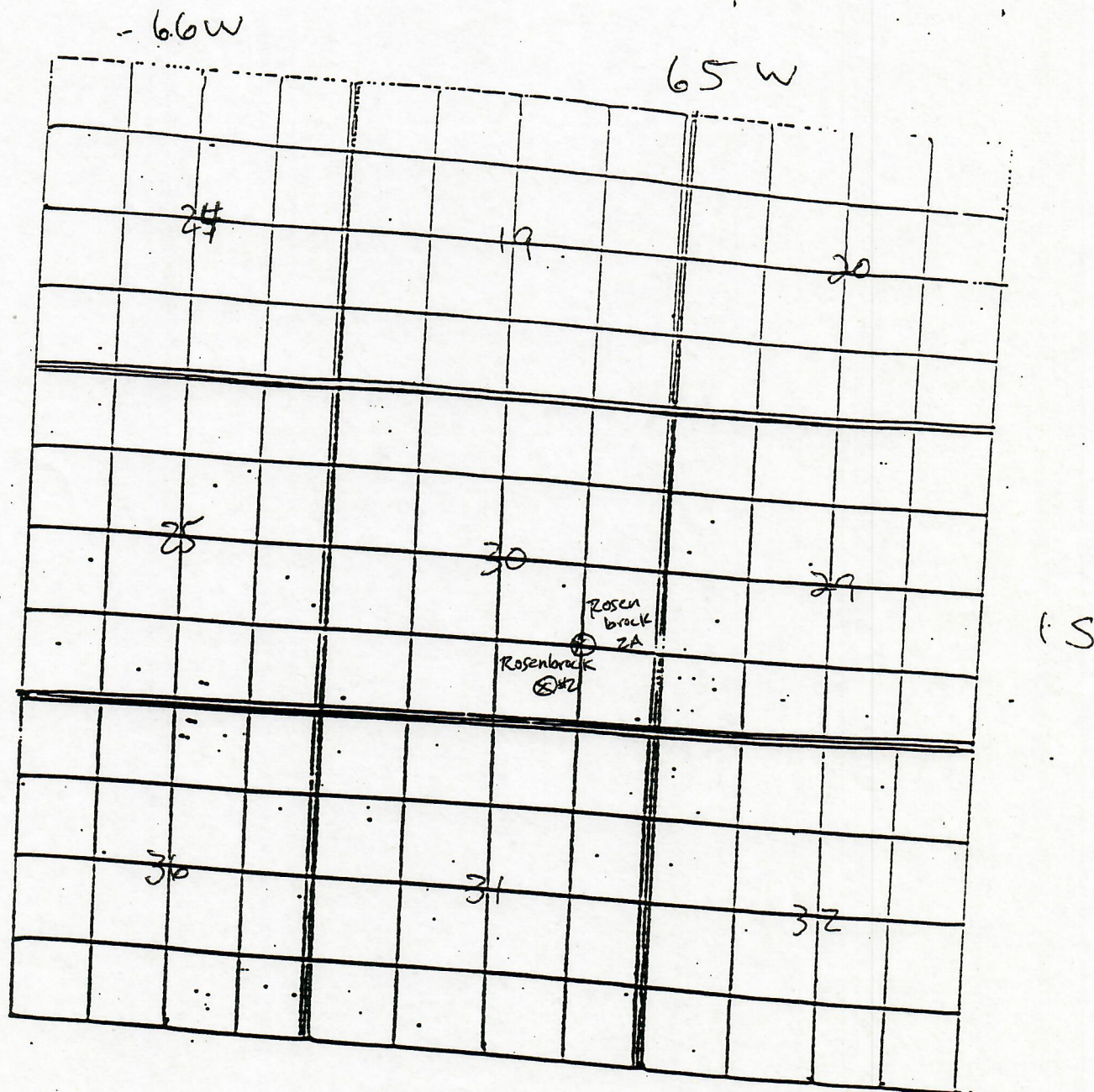
CONDITIONS OF APPROVAL, IF ANY:

CONTACT LARRY ROBBINS 48 HOURS PRIOR TO SPUD AT 303-894-2100 x107.

IF WELL IS A DRY HOLE SET PLUGS AT THE FOLLOWING DEPTHS: 1) 40 SX CEMENT PLUG @ D SAND BASE

2) 50 SX CEMENT PLUG 50' BELOW THE SURFACE CASING SHOE EXTENDING 50' INSIDE THE SURFACE CASING

3) 10 SX CEMENT PLUG AT TOP OF SURFACE CSG, CUT SURFACE CASING 4' BELOW GROUND LEVEL, WELD PLATE



Fox Hills
must be
isolated
within
surf csq
50' below
transition

Only DJ sand
production
within AOR

LOCATION: SW1/4 OF SE1/4 OF SEC. 30, T.1S., R.65W. (660 SSL, 1784 ESL)

Ground Elevation: 5217

Number of Acres: 40

AQUIFER	ELEVATION		NET SAND	DEPTH TO		ANNUAL APPROP A-F	STATUS
	BOT.	TOP		BOT.	TOP		
UPPER DAWSON	----	----	----	----	----	----	----
LOWER DAWSON	----	----	----	----	----	----	----
DENVER	4938	5138	103.8	279	79	7.06	NNT
UPPER ARAPAHOE	4687	4901	104.9	530	316	7.13	NT
LOWER ARAPAHOE	4363	4612	90.8	854	605	6.17	NT
LARAMIE-FOX HILLS	3728	3974	153.7	1489	1243	9.22	NT

note: E indicates location is at aquifer boundary and values may be more approximate.
Elevation of the bottom and the depth to the bottom of the Upper Arapahoe are approximate and should be checked against DENVER BASIN ATLAS NO. 3

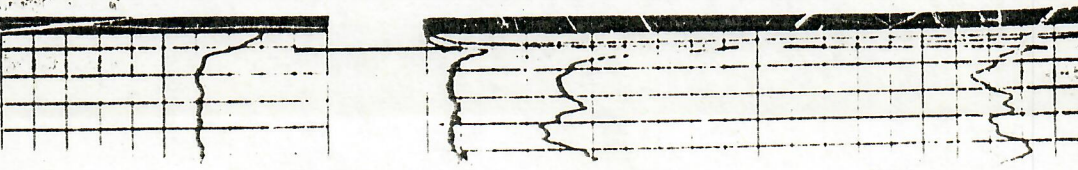


Production Technology

FILE NO.	COMPANY	KOCH EXPLORATION COMPANY
WELL	NO. 1 MENZEL	
FIELD	WATTENBERG	
COUNTY	ADAMS	STATE
LOCATION	NW SE SW 14	COLORADO
SEC	30	TWP
RGE	15	65N
CDL C GR		
Permanent Datum	G.L.	Elev. 5197
100 Measured from	K.B.	10 Ft. Above Permanent Datum
Drilling Measured from	K.B.	5197
Date	7-17-73	
Run No.	ONE	
Depth-Driller	8300	
Depth-Logger	8297	
Bottom Logged Interval	8292	
1st Logged Interval	222	
Casing-Logger	8 5/8" 222	
Bit Size	7 7/8	
Type Fluid in Hole	CHEM. GEL.	
Density and Viscosity	9.9 85	
pH and Fluid Loss	8.5 4.0 cc	
Source of Sample	PIT	
2 in. @ Meas. Temp.	3.48 @ 86°F	
1 in. @ Meas. Temp.	3.11 @ 70°F	
1/2 in. @ Meas. Temp.	3.06 @ 70°F	
Source of Sample	MEASURED	
Rm @ BHT	1.75 @ 172°F	
Rmf @ BHT	1.26 @ 172°F	
Rmc @ BHT	1.23 @ 172°F	

REMARKS	Equipment Used
	Run No. ONE
	S.O. 25323
	Tool No. 19696
	Elec. No. 19696
	Panel No. 29544
Channels in Mud Type or Additional Samples	Scale Changes
Date Sample No. ONE	Type Log
Depth-Driller 8300	Depth
Type Fluid in Hole CHEM. GEL.	Scale Up Hole
Dens Visc. 9.9 85	Scale Down Hole
pH Fluid Loss 8.5 4.0 cc	
Source of Sample PIT	Equipment Data
Rm @ Meas. Temp. 3.48 @ 86°F	Run No.
Rmf @ Meas. Temp. 3.11 @ 70°F	Tool Type
Rmc @ Meas. Temp. 3.06 @ 70°F	Pad Type
Source Rm Rmc MEASURED	Tool Position
Rm @ BHT 1.75 @ 172°F	Other
Rmf @ BHT 1.26 @ 172°F	
Rmc @ BHT 1.23 @ 172°F	

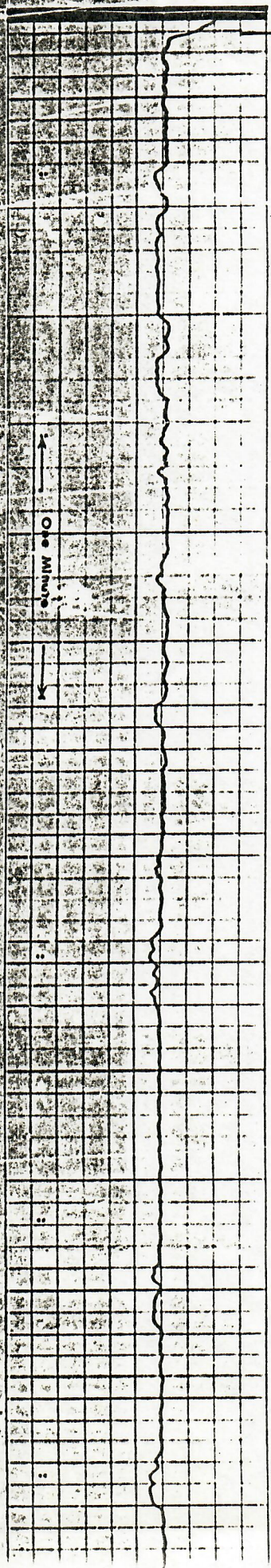
SPONTANEOUS POTENTIAL Millivolts	DEPTH	RESISTIVITY Ohms m ² /m	CONDUCTIVITY Millimhos/m
		16" NORMAL	INDUCTION CONDUCTIVITY 40" SPACING
		0 10	
		0 50	1000 0
		0 500	2000 1000
		INDUCTION RESISTIVITY 40" SPACING	
		0 50	
	2" = 100'	0 500	
	CSG. 22		



2"=100
CSG.22

0

500



300

400

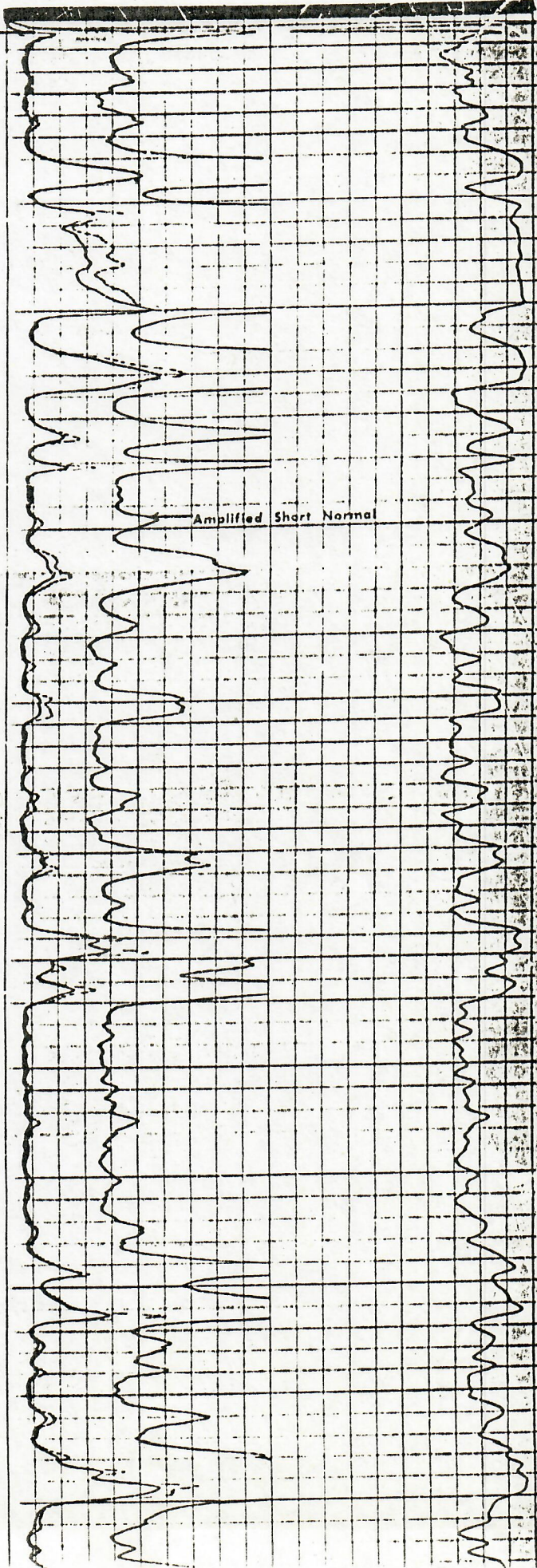
500

600

700

800

900



Amplified Short Normal

